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Government of Maharashtra
on 26 June, 2018

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3 : >7 <: ; <:C' 9 :<' >' $CC: 8 B@:' 9 :' . >B @ M
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1>@ D$@' 8 H>< $ D:' >?' 9 :' 8 ;<=:< O
1 ; B@ D' >H > ' ' 1$< C' P
3 : :<' >?' 9 :' ! H$ C9' & 8 BCC=><' ' 3> => Q
 H > ' ' , F@$ =' ' E 34
! <' / : < ' # @@:F<: ' C: ' >' ! D> @$ =' 33
3 : :<' >?' , @ I$B: 9' >' 9 :' % ; : : ' >?' ! D> C KM'
5 :D:H > ' >?' # @@:F<: ' $ ' / >@ <>>=' 35'
/ C >< ' >?' 9 :' D> CH <$D ' F C ' 2 $< @: 36'
1<:H$<$ > C' ?><' 9 :' * < $@' >?' ' > 9 :@@' M
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3 : >7' H: > C' ?><' $' H>C H> : 8 : ' >?' 9 :' * < $@ N
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&<< E$@' >?' *9<>F 8 >< > ' $ ' ,= B;<F9' ' 3:

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' ,@ I$B: 9' 9<:$: C' >' HE$=:' !D> @$ =' 5: ;< ' >?' + ;<<$ ' ?<> 8' A<$ D: ' D ::

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*9:' / $< > C' <:G = ' >' D> C: ' >' 9:' %;: : C' =:$ 9' ;0'

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&=E$ D:C' >?' A<$ D:' >' + ;<<$ ' ' 5:

+ $< ' ! ;$< C' A< C> ' ' E ' ; ' 56

:<E : ' B: : : ' + ;<<$ ' $ =' C' ! C :<' ' TU

+ ;<<$ ' 5 :F: ' >?' !D> @$ =' OK

,7 <: 8 :' = CH@:$C;<:' >?' ,@ I$B: 9' ' ' ON

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4<$ F:' F>:C' ' H;<C; ' >?' '> 9 :@@' 9>' :CD$H:C' >' 2: 8 $ J ' ' ' ' ' ' ' ' ' ' OQ

*9:' 5 :F: ' > ' 9:' '><=:<C' 64

1;< $ C' $ =' 6$ 9>@ DC' ' 6

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*9:' &<D9=;J:' 69$<@:C' F ' 65

3><=' !;CC:7' F>:C' >' : $' ' 61

2 ?? D;@ :C' >?' 5 :@ F > ' ' 66

(*9:' :F> $ > ' C' C;CH:H=:=' 60'

6$ 9>@ D' <:$D > ' ' , F@$ =' ' 04'

19 @ H' ' :7H:D :=' ' 9:' 3> ' 6>; < :C' 03

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3 : :<' >?' 9 :' !H$ C9' & 8 BCC=><' >' 1 9 @ H' ' Q '
4>>=' A : :@ F' >?' 1 9 @ H' > $<=C' ,@ I$B: 9 QM

6 / & 1 * , , ' V

* 9 :' / $ 8 @ > C' 8 $J :' $' 1 $< ' ?><' + $< ' ! ;$< ' ' ' QN
,7D:@@: D:' >?' + ;<<$ C' 4>E:< 8 : ' QP
5 :$D > ' ' ?$E>;<' >?' 9 :' %;: : ' QU
* 9 :' 6<$ F 8 "@$<' '> =' QQ
+ : : F' >?' 9 :' !D> D9' 1$<@ $ 8 : ' K K
2 :D@$<$ >< ' & D ' F C ' 9 :' %;: : K N
4 :><F:' 2 >;F@$C ' K P
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* 9W' 4$ 9 :< F' $ ' / $ 8 @ > ' K N
,@ I$B: 9' H<>H>C:C >' 8 :=$:' ' ' ' ' ' ' ' K U
3 : :<' >?' ,@ I$B: 9' >' 9 :' %;: : ' >?' !D> C' K Q
+ ;<<$ ' $ ' 4@$CF> ' KK
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" D:< $ ' $C' >' 9 :<' ?; ;<:' D>;<C: KM
!9 :' D<>CC:C' >', F@$ =' ' KMK
5 :D:H > ' ' 6;8B:<@$ =' ' KMM
1 :<H@:7 ' ',@ I$B: 9C' 6>; D @' KMT
+ $< ' ! ;$< ' $ ' 6$<@ C@:' 6$C @: KMQ
!9 :' C' H@$D:=' ' D9$<F:' >?' ! <' A<$ D C' # >" C' $ =' 3><='
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>@@ C C' 8H<:CC > ' >?' + $ ' ! ;$< C' 6 9 $<$D :< KN
3><=' / :<< :C' $ =' 3><=' A@: 8 F' F>' ;H' >',@ I$B: 9' ' KNN
,@ I$B: 9' H<>9 B C' ?;< 9 :<' / >C @ :C' KNT
!9 :' =:D@ :C' >' C:' 9 :' %;: : ' >?' !D> C' KNP
5 :H@: C9 8 : ' >?' + $< ' ! ;$< C' $<=<>B:' KT
+ $< ' ! ;$< ' D@$ 8 >;<C' >' B:' 9 :$<=' ' KTN
* 9<:$: :=' E:C F$ > ' >' 9 :' + ;<=:<' >?' 2$<9@: ' ' KTP'
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*9:A<: D9:7H:D := !D> @$ = KP

3: :<>?3><= / :<< :C >9:, F@ C9 6>; D @ KPN

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*9:2;J:>?.><?>@J $HH> :=1<:C =: KPQ

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6$<= $@' 6 9$ @@> ' C' <: D: E :=' ' , F@$ =' MM
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5 : C ; 8 H > ' >?' 9 :' : L ; < ' >' 9 :' 8 ; <= :<' >?' 2 $< @: ' MMN
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* 9 :' D> ?:<: D:' $ ' S :C 8 C :<' MMQ
+ ; <<$ $DD ; C : C' 9 :' % ; : : ' MN
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+ ; <<$ ' H<>= ; D : C' 9 :' 6$CJ : ' 3 : :<C' MNP
* 9 :' , F@ C9' . >B@ : C' H<> >; D :' 9 : 8 ' F : ; : MNU
, @ I$B : 9' $=E C : C' 9 :' % ; : : ' >?' ! D> C' >' D> ? < 8' 9 :<'
$B= D$ 7> ' ' ' ' ' ' ' ' ' ' M
& = E D :' >?' ! < <$ D C' # >@@ C MTM
4 @>> 8 ' 1<>CH : D C' >?' 9 :' 1<> : C $ C' > ' 9 :' 6 > : ' MTT'
*>@ :<$ > ' ' ' ' ' ' ' ' ' ' ' MM
5 : @$ > C' B : : ' , @ I$B : 9' $ =' 9 :' @ ; F ; : > C' MTP
, 7H : = > ' >?' ! <' >9 ' / $ J C' >' 9 :' ! H$ C9' + $ ' ' MTQ'
2 : C <; D > ' >?' 9 :' , F@ C9' ! L ; $=<> ' $ ' ! ' : $ ' =:' 3 ; I' MO
! H$ C9' <: $C ; <:' C9 HC' ' 9 :' , F@ C9' 9$<B> ; <C' MOK
3 : :<' >?' ! <' &< 9 ; <' 6 9$ 8 H : 8 > :' ' MOO
* 9 :' <: $C ; <:' C' C : I :=' MOP
&<< : C ' >?' , F@ C9' ! 9 HC' ' 9 :' 3 > ' 6 > ; < : C' MOQ
1<>B$B @ ' >?' S $<' 9' ! H$ ' ' MP
* 9 :' % ; : : ' >?' ! D> C ' A< : =C' 8 := $:' C ; <<: D > ' ' MP
2 ??: <: D : C' >?' >H > ' $ 8 > F' 9 :' , F@ C9' 6$ 9>@ DC' ' MPK
&<< : C ' >?' 9 :' ! H$ C9' & 8 BCC=>< ' ' MPN
A$D > C' ' , @ I$B : 9 C' 6 > ; D @ MPT
* 9 :' % ; : : ' >?' ! D> C' <:? ; C : C' D' <: H : $ ' 9 :<' $BD@ D$ > ' ' MP
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1@> ' >' 8 ; <= :<' + ; <<$ ' ' MU
3 ><=' &<; =:@' ><JC' ; H> ' , @ I$B : 9' MUN
6@>C :' >?' 9 :' : L ; < ' ' ' MUQ
= F $ > ' >?' ! <' A ' # >@@ C MQ
4 : :<$@' <: 8 $<JC' > ' 9 :' : E = : D :' F C ' 9 :' % ; : : ' >?'
! D> C' ' ' ' ' ' ' ' ' ' ' -=-
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6$ 9>@ D <:$D > , F@$ = N O

5 :E : >? 9: D> = > >? 9: <:$@ 8 B ! < S 8 6 :D @ N P

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*<$=: >H: := 9 / $ 8 B ;<F9 NKQ

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*9: %;:: >? !D> C H@$D:= D9$<F: >? 3><= !9<: C\

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, F@$ = H<> :D := B !H$ NMO

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&<; =:@ $ = .><?>@J D> CH <: F C 6 :D @ NN

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1@$ >=:C <> 6 :D @ NNP

6 :D @ C:H$<$:C .><?>@J ?<> 8 9: 6$ 9>@ D 3><=C NNQ

1<>H>C$@C ?>< + $< ! ;$< C <:C ><$ > NT

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2 ? D;@ :C !D> @$ =);;

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*9: 3><=C >? !D> @$ = <:?;C: >:<:D: E: 9: %;:: NOK

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> :' >?' 9:' 6>; D @' ' ?$E>;<' >?' + $< ' ! ;$< C' C;:('

,@ I$B : 9' <: 8>E:C' >' 5 D9 8 > =');-
?><?>@J' ?:$<C' >' $CJ' 9:<' >' D> C: ' >' 9 C' 8 $<< $F:' 9
9:' %;::<' >?' !D> C ' NPN
3: :<' >?' 2 > ' 4;:<$;' >' &@E$ NPT
,@ I$B: 9' ?><B =C' 9:' 8 $<< $F: NPP
.><?>@J'@:$E ' 9:' 6>;<' ' NPQ
+ $< ' ! ;$< (;<F:C' 9 8' >' $J: '$<8C' '
/ :'<: <:C' >' A<$ 8 @ F9$ 8' N K
!: I;<:' >?' 9:' %;:: ' >?' !D> C' H$H:<C' ') -
*9:' 2;J:' >?' .><?>@J' B: F' C;8 8 > :=' >' 9:' %;:: C
H<:C: D:' $? :<C>8:' 9:C $ > ' >B: C' N N
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A<:C9';D:< $:C' $B>;' 9:' %;:: ' >?' !D> C)=]
5:C>@; > ' >' 9>@=' 9:<' $' H< C> :<')=-
E:C F$ > ' >' 9:' D> CH <$D ')=<
.><?>@J' H<>8 C:C' >' 9 J' >' 8><:' >?' 9:' %;:: ' >?' !D> C')=;
*:8 H:<' >?' 9:' .>< 9:<' 6>; :C' ' ' ' ' NQU
69< C >?:<' .>< > ' $ ' '>@ > ' 6 $C @: NQQ
*9:' : =:=' <:B:@@ > ' = CD> D:< := ' T K
6>; D @' $ ' *>H:@ ?' T M
69$H ' :@@' D>8:C' >' , F@$ =' T T
, ?><D:8: ' >?' 9:' & D ' >?' " ?><8 <@;
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*9:' ,$<@C' >?' S:C 8><:@$ =' $ =' .>< 9;8B:<@$ = T
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*9:' F$ 9:< F' $ ' 5 $B ' ' ' <)
+ $CC' ' 2;<9$ 8' 6$ 9:=<$@' T T
3><=' !;CC:7' $ ' 0><J T P
*9:' ,$<@C' 8 $<D9' ?><' *; B;<' >' <:@:$C:' 9:' %;:: ' >?
!D> C' ' T U
1<:H$<$ > C' >?' & @E$ TKN
!9:' C' D$<< :=' >' 6>E: < ' ' ' ' ' < <

*9:' !>; 9:< ' 6>; :C' :8$ ' L; : ' $ =' ^ :' ,$<@C'
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" E:<C$@' = C@> $@ ' ' 0><JC@;<:' ' ' ' ' ' TKQ
,@ I$B: 9' <$ C:C' $ ' $< 8 ' ' <- _
*9:' ,$<@' >?' S :C 8><:@$ =' $J:C' '$< D$C @:' ' ' TMM
*9:' %;:: C' ?><D:C' $<< E:' $ ' 2> D$C :<' ' ' ' TMT
*9:' ,$<@C' ?@ ' >' !D> @$ =' ' <-=
6> E:<C$ > ' B: :: ' ,@ I$B: 9' $ =' 3$' +> 9B' A[:@> ' <) '
*9:' !H$ $<=C' C::J' $' <:D> D @ $ > ' 9' 9:<' ' ' ' TNM
6$;C:C' >?' 9:' ?$ @;<:' >?' 9:' <:B:@@ > ' ' ' TNN'
&==<:CC' >?' 9:' 4: @:8: ' >?' 3 D>@ C9 <:' >' 19 @ H' 3 ' TNT
+ ;<<$ ' $ =' + $ @$ =' >?' 3: 9 F > ' TNU
& <<:C' >?' 9V$ @$ =' ' ' ' ' ' ' ' TT
6$H ;<:' >?' 9:' ,$<@' >?' . >< 9 ; 8 B:<@$ = ' ' <<-
*9:' ,$<@' >?' S :C 8><:@$ =' $ ' :=B ;<F9 (' <<)
,@ I$B: 9' =:8$ =C' 9:' :7 <$= > ' >?' 9:' 5 :B:@C - Y ' <<<
3>< ' / ; C=> C' >H > ' >?' 9:<' D> = ;D ' <<;
1; C98: ' >?' 9:' C;<F: C' ' TO
*9:' C;??: :<C' D9 :?@ ' 9:' @:$C ' F; @ ' ' ' TOK
,7 <:8:' C:E:< ' > $<=C' 9:' H>><:<' D@$CC:C' ' TON
1< D H@:C' >?' , F@ C9' ;C D:' ' ' TOO
! <' 5>B:<' 6> C $B@:' :8 ?@> :=' >' : <$H' 9: ,$<@ >?
S :C 8><:@$ = ' ' TOQ
+ ;<<$ C' H>C > ' ' !D> @$ = ' ' ' TP
*9:' /$8 @ > C' D> CH <:' >' J @@' 9 8 ' ' (' <;<
'> 9 :@@9$;F9' $ =' 9 C' '<> 9:<C' ' ' (' <;;
+ ;<=:<' >?' + ;<<$ ' $ ' 3 @ 9F> ' ' ' TU
69$<$D :<' >?' + ; *$ ' ' TUK
A::@ F' ' !D> @$ =' ' ' TUN
3:> $<=' 2$D<:C' $ ' .$ >7 9' ' ' TUQ
'$ @:' > ' 9:' 4:@ ' 5 E:<' $ =' ?@ F9 ' >?' 2$D<:C ' ' ' TQM
3: :<' ?<>8' ,@ I$B: 9' >' 3><=' / C=> ' ' <=<

=> !$9?,

C DAE F A 'G E BHAC E G' * CI E

JAE FB"A G E D "F A C GE K F' J IFJ IA FEEFEL TOP
E 'F G' GM +F '"AK BAA' 'G DG A IF' F "NF FC GM @AB 4
COAJ 'AEE IFJ IA DKE A AE CG' 'AC AJ I F' J IA
AE " E F E 'N M GD A(A' JAJ G' "K G IA PA EG 'E IA
DG AE F' J IA AECFPA G P ' EIDA' GM IA PA PA
F G(E G IA FCCAEEG AE D NI IF A ADF 'AJ F
P GB"AD MG C G E EPACQ"F G' B G "J 'A IA
IF A JAEA AJ 'G JADF' JAJ IA AJ G E F A' G' GM
IA I E G F' $IGEA A A' E G' "K F A GM PA DF' A' DL
PG F' CA I CI IF A A IA FMMAC AJ IA MG 'AE GM
'F G' E G IF A "" E F AJ ' EGDA E N' F" DF' 'A IA
CIF FC A GM IA APGCIE F I CI IAK IF A GCC AJ
M IA FNAJK F 7 O G @ A"J IFJ PGEEAEEAJ 'G C"F D
MG 'G CA G' IA M E GM IAEA N G 'JE JAAJE GM
G"A 'CA A A GG CGDDG' ' IA N AF MFD " AE GM
#CG "F' J ' IA E (AA' I CA' K G IF A H E M AJ
F D ' A CG' E JA F G' GM F E 'N"A EPAC F" FC GM
""F' K

% IA JAF I' GM IA I EBF' J' GM IA R AA' GM #CG E
BA"G 'NE G IF F A C"FEE GM 'C JA' E I CI '" OA IA
D JA GM = AEF IF A G CIAJ IA ' A AE E GM IA
A' A AJ CF AJ G "J ! A IFPE IA A E 'G E 'N"A
ACG JAJ FC F E 'N DA A"K G GM P F A G PA EG 'F"

9 - S %

'T .' PFEE G 'E' GM' I CI' IA' P B" C' CG 'EAQ A 'CAE' IF A' BAAH'
516 EG' CG 'E JA FB"A' $IA' A G" G '' I G NI' I CI' #CG '
"F 'J' F'J 9 'N"F 'J' A A' PFEE 'N' FE' E B"K' DGJ M AJ' BK'
/' 'PA P"A(AJ' IA' CG 'EA"E' F 'J' CGDP" CF AJ' IA' PG" CK'
GM' IA' N AF' =F IG" C' !G A E' GM' IA' =G' 'A' /' I "A'
IA' " DF A' A J C' GM' I E G K' G '' IA' CIF FC A' GM' IA'
N AF AE' 9 'N" EI' E F AEDA '' GM' IA' FNA' D E' JAPA 'J'
PG '' IA' GP ' G '' I CI' IA' A A' F"' CG 'EA' ' GM' DF 'L
O 'J' EIF"" FCCAP' G '' IA' EIF A' GM IA' R AA '' GM' #CG E'
IA EA"M' '' IF' F 'EFC G ' ' M' IA' R AA '' GM' #CG E' FE'
IA' C D' GM' F' CG 'EP FCK' I CI' F' IA' P AEA ' ' JFK'
F 'J' I' F '' DPA MAC' CFEA' BAMG A' E' CF '' 'A A IA"AEE'
BA' EAA '' I G NI' F 'J' A(PGEAJ' ' E' DPGEE B"A' G' BA" A A'
IF' DA '' " OA' # ' * "" FD' =AC " ' # ' CIG"FE' %FCG ' '
G' -G J' %AJMG J' A A' JACA AJ' BK' EG' PGG' 5' CG 'L
F 'CA/' F 'J' FE' IA' 'J CF"8G '' GM' IA' CG 'J C' GM' IA'
' 9 'N" EI' 8G A 'DA ' 'P GCAAJE' G '' IA' FEE DP G '' GM' IA'
N " ' EG' IA' JA A D 'F G '' GM' IA' ' 'GCA 'CA' "" AQ F"" K'
BA' IA' FBEG" A' CG 'JAD 'F G '' GM' 9" UFBA I' F 'J' 9" UFL
BA I E' FJ EA E

VA' IA' J M"# C " K' GM' IA' ' AE NF G '' IFE' BAA ''
GCCFE G 'AJ' G '"K' BK' IA' CF EAE' I CI' DFOA' ' 'ACAEEF K'
>FJ' IA' Q AE G '' BAA '' 'G' DG A' IF '' PA EG 'F"' '
G "J' "G 'N' FNG' IF A' BAA '' JAC JAJ/' B ' A' IF A' G'
JG' I' F' CFEA' G '' I CI' DA '' IF A' MG DAJ' IA 'GP ' G 'E'
'G' G '' IA' DA E' GM' IA' A JA 'CA' B ' I G NI' IA'
PFEE G 'E' G ' FJ G 'E' GM' IA' PF K' G' I CI' IAK' IF A'
BA"G 'NAJ' $IA' ' A AE E' GM' IA' =F IG" CE' AQ AJ' F'
IA' DA' IF 'F' P"AF' G ' GCA 'CA' G '' BAIF"M' GM' IA' R AA ''
GM' #CG E' EIG "J' MG DF"" K' BA' P AMA AJ' BAMG A' IA' G "J'
$IA' EFDA' CF EA' A 'MG CAJ' BK' IA' "F A 'PG" CF"' EKDPFL
I AE' GM' IA' FJIA A' E' GM' IA' # F E' CG' A AJ' FM A L
F JE' IA' MG DF"' P"AF' ' G' F' AF"' G 'A' ' J' IQE'
I 'NE' G 'CA' CG 'E JA AJ' CA F '' F 'J' FNF 'E' I CI' 'G

CG' ADPG F K A JA'CA CF'' BA FJJ CAJ JAEA 'N G BA
'CF""AJ BK IA 'FDA IF A BAA'' DFJA JG B M "" BK IA 516
DA A AMMAC GM APAF AJ JA' F" =G'HAC AE IF A BAA''
CG' A AJ ' G MFC E BK IF JK FEEA G'E/ F'J 'G
IA'' IA G"JA PFEE G" E F A CGG" 'N JG '/EA' DA' F"L
ED P G"G'NE IA J EC EE G'' I IA DF A F"E FCC D L
"F AJ G E IF'J

 E IA AMG A GM IA I NIAE DPG F'CA G FECA F ''
IA DDAJ F A BA" AM GM IA DA F I CI IA D JA
GGO P"FCA I "A PF K GP ' G'E A A E "" 'EIFPAJ F'J
PF K FC G'' 'JA A D 'AJ $IA AFJA E ' AJ G
MG""G IA E G K FE ' 'MG"JAJ EA"M M GD JFK G JFK
>A "" BA EIG '' AFMCI A A'' FE GCC AJ I IA
DP AEE G'E I CI MG DAJ PG'' IA D 'JE GM IGEA
IG DJ BAE DAF'E GM O'G 'N IA I >A "" EAA
IA H JNDA' H$CC:=' PG'' IA CG'J C GM IA R AA'' GM
#CG E BG I BK M A'J F'J MGA BAMG A IA A(P"F'F G'E
F'J ' A P A F G'E I CI MG D IA NA'A F"JAMA'CA IFJ
FE KA BAA'' P MG F J BK IA FJ GCF AE/ F'J I E
IA'' IA CGDAE G IA C C DE F'CAE 'JA I CI IAEA
A(P"F'F G'E A A"F J BAMG A IA G "J IA "" BA '' F
PGE G'' G H JNA MG I DEA"M IA JAN AA GM C AJ B" K
I CI F FCIAE G IAD

 $FO 'N P IA 'F F A IA AMG A IA A FE "AM
'' IA "G I CIFP A GM I E I E G K IA AFJA "" CG''
E JW I DEA"M F >G"K GGJ G'' "A DG ' 'N GM IA "G I
GM @AB F K %K IA DA IF JFK IFJ B GOA'' IA
7 'N E JAF I F'J IA FPPF A'' DF''A GM FE O'G ''
I G NIG IA G '' $IA PAGP"A A A EI 'N FBG
IA E AA E $IA EA F' E GM IA =G A A F"O 'N
AFNA "K '' O'G E FBG IA Q FJ F'N"A GM IA PF"FCA
 FE FECA F 'AJ F IA "GJNA IF IA 9F "" GM %G I
A"" G EGDA GM I E PAGP"A IFJ PFEEAJ G FM A IA
R AA'' IFJ A 'AJ IA P ACAJ 'N ' NI F'J IFJ

/ $ 3 $% 4 & +

, A' A AJ FNF '' FM A IA A(P"GE G' '' 'E 'C A(P"F 'AJ BK IA CIF FC A GM IA DF'' PG ' AJ F G'CA @AB 1' G IA AF "FE IA FEEFEE '/ F'J FE !F E IA @ A'CI PFNA C GEEAJ IA CG G I E DFE A E GGD X F"" DA'' "GGOAJ FEOF'CA F I D F'J AFJ N " '' I E I A CIAAOE F'J EI MM" 'N DG ADA' E

$IA) D E G'E +F"N"A EI !G K >APB ' F'J IA G IA CG'EP F G E A A F" AFJK CG""AC AJ FE IA A' A AJ %G I A""FEOAJ I D EF FNA"K IK IA E GGJ EIFO 'N IA A I E CI F IF 'NJGN "GGO PG'' I D >A EF J D EA FB"K IF IA FE FM F J GM BA 'N MG 'J G F'J P ' EIAJ X VG Y EF J IA 9F " 'N"F 'N F I D X KG Y VAE KG F A F " OA"K PA EG'' G BA E EPAC AZ - GGO F IAEA NA'

. D9>@$C / ;B:< ' A<: D9 1$< C' $C' '> 9 :@@ C H$F:' / :'@:?' !D> @$ =' C>> ' $? :< 9:' 8 ;<=:<' B: F' >>' 8 ;D9' : * ? :=' >' <: 8 $ ' 9:<:' $ =' ?><' : F9 :: ' 8 > 9C' $C' C;HH>C:=' >' 9$E:' B:: ' =<> :=' / ; ' 9:' 9$=' H<>B$B@ ' CH<:$=' 9:' <:H><' 9 8C:@?' 9$ ' 9:<:' 8 F9 ' B:' >' ?;< 9:< : L; < ' $? :< 9 8 ' $C' = CD>E:<:=' $? :< $<=C' 9$ ' 9:' 9$=' <: > :=' 9 C' 8$C :< ' 2: 8$<J' $ =' ' 9:' :$<@ ' C; 8 8 :< >?' TOQ' 9:' 5:F: ' + ;<<$ ' >< 9:' 5:F: ' + ;<<$ C?< : =C F> 'H>CC:CC > '>?' 9 C H:<C> ' 'B 'H>@ D ' 'C> 8 :' $ '>< > 9:< 9:' $C' J = $HH:=' $ =' B<>;F9 ' >E:<' >' 3: 9 ' / C' D$H ;<:' $C' D$<:?;@@ 'J:H 'C:D<: ' / :' $C' $J: ' H< E$:@ ' >' ! ' & =<: C ' 9:<:' 9:' 5:F: ' 9$HH: :=' >' B:' $ =' :7$ 8 :=' B ' 4:><F:' ';D9$ $ ' 5>B:< ' 5$ 8 C$ ' + ;<<$ C' C : $<=' $ =' >9 ' S >>=' 9 C' D> ? =: $@ C:D<: $< ' 1$< C' 8 $=:' >' =:H>C \ > C ' 9:' ? <C ' > ' >;D9 F' + $< ' ! ;$ ' 9:' C:D> =' ?$ $@@ ' 8 H@ D$ F' 9:<' * 9 C' @$C ' $C' <:$=' >E:<' ' 9 C H<:C: D: ' / :' C F :=' ' $ =' $C' 9: ':7:D; :=' 9$ ' 9:<:' 8 F9 'B:' >' <: <$D $ > ' >< D> <$= D > ' * 9:' 9$C :' $ =' 9:' D> D:$@ 8 : ' :<:' \ : =:=' 8 :<:@ ' >' B$??@:' ,@ I$B: 9 ' 9>' ' $C' ?:$<:=' >;@=' $:8 H ' >' F: ' 9>@=' >?' 9 8 ' $ =' C;HH<:CC 9 C' :E =: D: ' !9:' = =' '?$D '9:$<' 9$ ' 9:' $C' ' 9:' 5:F: C' 9$ =C ' $ =' C9:' C $ @ ' <> :' >' =:C <:' 9$ ' 9 C' @?:' 8 F9 ' B:' CH$ (:=' B; ' ' $C' >>' @$:' >' B:' >?' ;C:' >' 9:' H>><' <: D9 ' * 9:' $ D H$ > '>?' 9:<' \ :<?:<: D:' 9$=' 9$C : :=' 9 C' =:$ 9' ' 9:' $C' 9$ F:=' B:?><:' 9:<' H :<' $<< E:=' $ =' 9 C' =:H>C > ' D>; :<\ C F :=' B ' 9:' :7$ 8 :<C' 9 D9' C' > ' ' 9:' 5:D><=' ?? D:' $C' ?><\ $<=:=' ' <:H@ Y 2:H>C > C' $ =' =:D@$<$ > C' >?' . D9>@$C' @;B:< ' &;F;C ' TOQ' ' ' ' 2:H>C > C' >?' A<: D9' 1$< C' H< :=' '1 D$ < C' 6< 8 $@ * < $@C' $ =' ' 4>>=$@@ 'E>@' 'H' PO' A><' 9:' $DD>; ' >?' 1$< C C' D$H ;<:' $ =' ,@ I$B: 9 C' @: :<C' C::' $@C>' ' '

"ADA' $IAK IF A"F'JE F'J NGGJE AE F'J CI "J A' F'J IAK IF A EOAJ IAD F"" 'DK EA JCA $IA E' M E' BA E D 'A ''G KG E A""KG IA -G JE GM#CG "F'J IF A JG'A I E JAAJ A CI" OA KG E EFMA 'KG 'E N' M CF'CA =G""AC 'N I E EP E FE IA CG "J ! F E A' G IA FPF DA' E GM IA R AA' IA A %G I A"" MG""G AJ I D J AC "K FM A TF K# F IFJ E"AP EG 'J"K B FE BK I E DA E 'N $IA 'L JG E A A E ""C"GEAJ $IA GGD FE F" AFJK I 'N I B"FCO F'J" NI AJ I CF'J"AE #IA IA EA"M FE B AFOMFE 'N ' BAJ AF 'N CG H PGEAJ"K FE ! F E GBL EA AJ F 'A "F J ANN #IA J J 'G ''G CA G EPAFO G I D MG %G I A"" CFDA C"GEA BAI 'J F'J F"OAJ ' F "G G CA D I IA BAI 'J IA C F '

*" I A A DFK G DFK 'G IF A BAA' IA G IA BFJ Q F" AE D J K FE 'G G'A GM IAD/ F'J M EIA FE ''GCA' GM F EIF A ' IA D JA IA 'EA"M PGEEAEE G' FE AQ F""K ADF OFB"A >A I EBF'J IA "F 7 'N GM #CG "F'J IFJ BAA' FEEFEE 'F AJ IA ' NI BAMG A ' IA D JJ"A GM 9J 'B NI 'G G IG E FM A EIA IFJ IA L EA"M"AM I E E JA $IA'PA PA F G E A A' ACAEEF "K DA' FBG IA =G F'J C"GEA G IA G ' PA EG' #IA P GL MAEEAJ G BA" A A IF EIA FE IA EA"M IA EACG'J GBHAC GM IA CG'EP FCK KA EIA BA FKAJ 'A IA E P EA [G F"F D $IA P FC CF" A'A NK F G IA DAE EG ADF OL FB"A FE CG'EP C G E"K FBEA' #IA J J 'G F ADP G M"K #IA EA' MG 'G'A GM IA FBEA' 'GB"ADA' G P GL AC IA / IA NG IA AEG" G' IA M A K AF 'AE L 'AEE I CI EIA IFJ EIG ' G' IA D JA GM ? UU G \

@AB"G

' '3 :' 3 ; = ' 8 $ ' : <:' :;?' : ' =:' @$' D9$ =:@@:' $@@; 8 [:' =:=$ C = 7' 9 :;<:C' @:' = : ' 1$< C' = : ' L ; @' D:@@: ' @$' >;' + $=$ 8 :' =:' '<` $ ' @; ' : <:' =$ C' @$' D9$ 8 B<:' =:' @$' 5 : ' => ;> ' a' =: : ; :<' = ; F' b ;? ?<$ C' @$L ; :@@:' :C > ' B : ' D@>C: ' : 'C> ' @ D' ' ' ' ' 1 (' @$' : =;' =;' > <:' : ' C F :' =:' =: : @ 6&@' <' E>@' 'H><' N' H' T Q'

/ $ 3 $% 4 & +

GM IAEA IA A FE 'G G F J EKDP GD -AF 'N IA CG 'EH& F G E G DAA ' '=G 'C 'F 'J FMMAC ' G JA" BA F A EIA EPA ' IA DG ' 'N ' 'N F "A A ' G IA CIL B EIGP GM 8"FENG ' IA FDBFEEFJG ' ' !F E ' 'MG D 'N I D GM IA CF FE GPIA ' JAC"F 'N IA ' AEG" G ' I CI ' D NI ' IF A BAA ' IG NI ' ' 'ACAEEF K G 'E E ' PG ' ' GM P ' EI 'N IA D JA A E FE EGG ' FE IAK EIG "J BA J ECG A AJ ' % ' EIA GGO 'G FC A E APE G J ECG A ' IAD ' -A ' 'G(' +F '"AK E MF IA ' FE F ' 8"FENG ' G ' 'AF ' ' B ' EIA J J ' 'G ' EA 'J MG ' I D ' T FK FE I ' ' AFCI ' B ' EIA J J ' 'G ' EAAD G JAE A I E P AL EA 'CA/ F" IG NI ' EIA G"J IA CIB EIGP IF ' G '"K FCC L JA ' ' IFJ ' A MA AJ I IA ' ' A ' G ' ' GM EPA 'J 'N IA P A G E ' NI ' F ' 7 O G @ A"J \ IF ' X IGA A ' IFJ FOA ' ' IA A ' A P EA ' ' IF 'J ' ' IFJ BAA ' F DAJ JE A"" F ' IA EA"M FE F ' IA 7 'N ' E 'CA IA P G JA 'CA GM 8GJ G '"K IFJ P A A ' AJ IA 'M GD E"AAP 'N ' ' IA IG EA I CI FE JAE GKAJ '

-F A ' ' ' IA JFK F JAEPF CI CFDA ' ' M GD IA CIL B EIGP I DEA"M CG ' F ' 'N F DAEEFNA G IA ' M GD =F IA 'A JA TAJ C IF ' IA ' I EBF 'J E " MA FE ' ' JF 'NA ' F 'J F 'G IA '"A A ' G IA EFDA AMMAC ' M GD IA #PF ' EI DBFEEFJG ' ' -G 'JG '/ B ' F"FE] FE EIA EF J ' ' IA ' AP"K ' X IA ' DF G ' ' IFJ CGDA GG "F A ' $IA P"G ' 'EAADE FE O 'G ' ' !F E ' F 'J O 'G ' G JA # " F/ KA ' EIA M EIA FE G BA BA" A AJ ' FE ' 'GCA ' GM F"" E EP C G ' ' GM

' *9 :' @: :< >?' 9 :' %; : : ' >?' !D> C' >' 9 :' &<D9B C9>H' C' H< :='B> 9'B ' # : 9' $ =' 3B >@A ' C' =$:=' A:B<; $< ' ; ' ' ; ' 9 :<:' C' $ ' :E \ =: ' 8 C $9 : '>< 9 :' %; : : '$==:=' 9 :' =$:' 9 :' =$ '$? :< 9 :'@: :< $C' < \ : '?>< C9 :' =:CD< B:C' 9 :' 8 ;<=:< $C' 9$E F'B : : ' D>8 8 :=' > ' 9 :' F9

H$C ' B: F' A:B<; $< ' Q ' $ =' ' $' C:D> =' @: :< ' (< : ' $' : : J' $? :<' C9 :' C$ C' :' <:D: E:=' >; < @: :< ; H> ' 9 :' 9' >?' 9 C' C $ ' $ =' 9$ ' C$ 8 :' =$ ' <$ ' >' >;

A:B<; $< ' U

' IA FM A 'GG' IA A FE F MF ' EIG GM ' AE NF G' NK"A F'J %Q I A"" A' G 'EPAC IA 'E $IA BGJK FE B G NI JG ' G >G"K GGJ F'J IA EA F' E IG IFJ EK AJ IA A(P"GE G' F'J IA 'L IFB F' E GM IA FJHG ' 'N IG EAE A ^ EA' MG F'J Q AE G'AJ $IAK CG "J A"" B " "A MG IG   FE EF J X JF AJ FCC EA %G I A"" IG FE JGA H JNA A'Q A F'J A(FD 'A 9 A' EG IG A A F'J ' IA D JE GM IA F"F D F O F J I ' E F'J MFC E A A B" AJ G I CI   FE JAE FB"A G OAAP BFCO F'J IA 'AEEAE A A 'G P AEEAJ F'K M IA $IA 'A(DG ' 'N_$ AEJFK&F P GC"FDF G' FPPAF AJ E N'AJ BK %G I A"" TF "F'J F'J NK"A GMMA 'N F A F J GM H GGG MG IA J ECG A K GM IA D JA A I 9 M AA PF JG' G F'K FCCGDP" CA IG G "J CG'L MAEE ' IA A A' 'N FM A J EO F' F'G'KDG E P"FCF J FE M (AJ FNF 'E IA JGG GM IA $G"BGG I FCC E 'N %G I A"" F'J # ` FDAE %F"MG FE IA DDAJ F A PA L PA F G E F'J CG' F ' 'N ' FJJ G' IA GD 'G E G JE X IF IA R AA' FE F' FEEA' 'N PF K I G NI IA PA E FE G' GM IA 9F '" %G I A"" F'J IA CIC FM GM IA -FJK % CC"A CI # G 'JAJ BK I E G ' A F 'A E I A A K DADBA GM IA =G 'C '" F 9J 'B NI M 'G FE N " K FE I DEA"M

' '<6 / & . &V
' + $<F$<: ' 2 > ; F@$C ' ?:' >?' ! <' S $@ :<' !D> '>?' ' ; DD@: ; D9 ' $C' 9:' =$; F9 :<' >?' 9:' , $<@' >?' & F ; C '$ =' D> ; C ' >?' + >< > ' 3 J :' 9:<' C C :<' 3$= '5 :<:C 'C9:' 9$='B:: ' > :' >?' 9:' 8$ ' 8 C <:CC:C' >?' ' > 9 :@@'$ =' ' S$C' B '9:<' 9$ ' 9:' , $<@' 9$='B:: ' :CH:D $@@ '<:D> 8 8 : =:=' >' 9:' > D:' >?' + $< ' ! ; $< ' ! 9:' =>:C' >' $HH:$<' >' 9$E:' B:: ' $' E:< ' 8 >=:C

@$= ' ! <' S @@ $ 8 ' 2<; < ' < F' >' 6 : D @' C$ =' ' =$<:' >' =:@ E:<' 7 > >; <' 9> >; <' 9:' 3$= ' ' ; D(' D@: D9 C' CH::D9' :$ ' >H: @ ' >?' 9:<' :@@ F' 9:' D$; C:' 9$ ' C9:' B<:=' 9 C' F<:$:C C' 9' 9:' % ; : : ' B ' ><' >?' 9:<' CH::D9' >?' 9:' % ; : : ' ><' >?' 9 C' C$ $: :C'' > $<=C' >8 : Y ' ' ' ! ' + $ ' TOP' " ' ' " # '

=> ! , KA DP" CF AJ GG JAAP"K G FC FNF 'E I D %G I
516 A"" DA IA CIF""A'NA D I GPA' JAM F'CA ' F EAL
a: CG'J P GC"FDF G' IA ' AJ I E FCC EA G CGDA MG L
F J P G A I E CIF NA F'J C"F D I E A F J '
F'E A 'E F' "K FPPAF AJ FNF ' 'E N'AJ B JAC"F 'N
IF M IA 3444 FE P GJ CAJ F'J FE JAPGE AJ '
EGDA 'J MMA A' IF'J F'J M G GM IA R AA' E EA L
F' E %FE F' F'J `GEAPI ? UU G +F J E B G IA A A
F AE AJ IA A F'J X MG G IA E I I D G "J
JAC"F A IADEA" AE F'J DFOA NGGJ IA G JE !A L
IFPE IA 'FDAE DA' G'AJ E NNAE AJ GG C"GEA F O'G L
"AJNA GM JF'NA G E MFC E $IA DA' A A 'G F AE AJ
F'J IA =G 'C "F EF J 'G DG A/ B FE IA E "A'CA F'J
'FC G' CG' ' AJ IA G'N AE GM F"" DA' A A "GGEAJ
F'J IA IG NI E I CI A A ' IA D 'JE GM A MA KG'A
B E ' G IA F T J' NI C AE A A " AF J ' IA
K'JE F'J F""AKE GM 9J 'B NI C K 'N MG A'NAF'CA
PG' IA R AA' F'J %G I A"" 9FC I JFK FE B GOA
EIG AJ IA F""E PFE AJ I X B ""E ' I CI IA
'FDAE A A " 'OAJ GNA IA ' F' 'MFDG E ' G' GM
C DA \ F'J BG"J FE IAK A A IAK A A E F "AJ F IA
PFEE G'F A 'E 'C I I CI IA JG B"A N " IFJ
BAA' J 'AJ @ M K JAEPA F A DA' N F JAJ IA 9F "
IA'A A IA FPPAF AJ ' IA E AA M IA EPGOA G
F'KG'A X'G FEE AJ I E M A'J I E IF'J FE G' I E
JFNNA I " / F'J IA E G A EF FNA"K X IF M IA O'A
IG A A IA EA A E P GM IA B ""E F'J 'NE IA
G "J FEI I E II 'JE ' IA B"GGJ
$IA F DGEPIA A GM 9J 'B NI N A 'P"AFEF' $Ib
=G IG NI GM ADG 'N ' G AFE A F'J EFMA Q F L
A E F # " 'N F'J F' ' DF G' FE CG' AKAJ G -G J
TF IG FE ' CIF NA GM IA CFE "A IF IA R AA'

EIAJ G BA I E N AE TF IG A A JAC" 'AJ G FJD I ' IA NF AE F"F NA MG CA IF' IA CG "J OAAP ' G JA F' J %P I A. JF AJ 'G "AF A I E MG""G A E BAI 'J I D $IA IA AJ F K N F J F' GM IA ! 'CA FE GG DPG F' F PA EG' G Q F A I F' J FE 'AL CAEEF K G P P I IA AM EF"

TOP @AB 1

#AC AJ FE IA FE GM IA E PPG G E "A 'CA GM IA P 'C PF 'GB"ADA' %G I A"" IFJ A JA' "K 'G BAA' P APF AJ MG E CI F' G B E GM ADG G' FBG F DA A D JA I E I F J O G F E GOA I F M G J FE IA DA IF""G AJ F' J C E GD FCO 'G "AJNAJ DA IGJ GM JJ 'N IA G "J GM F' A'ADK $IA P M " AEA G' GM I E CGDPF' G'E FM A ? UU G E D JA IFJ AM +F '"AKF"DGE IG F E 'N"A M A' J/ F' J B MG 'A EP I CI FE PG 'N I IA ?AMG DF G' ' G #CG EI " MA IA DA A JAE C G' GM F G B"AEGDA &GK G "J IF A BAA' B IA G' JA GM F JFK MG NG A' ' IA 'A(FNAJK $I E CIF'NA GM DAE IG A A FE 'G 'JA E GGJ "" FE MA" F' J FE E PPGEAJ IF F EIG FBEA'CA GM IA =G G "J N A DA G PFEE G' G CGG" @G K JFKE GM C"GEA EAC" E G' FE IA E F" PA GJ P AEC BAJ MG ?GKF" DG ' 'N/ B IA R AA' MG 'J IA CG'M 'ADA' 'H G E G IA IAF" I 'J FE # " 'N FE DP FC CFB"A EIA 'AJ IA IG NI E A"EA IA A +F '"AK c FE P F A"K B AJ F

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' *9 :' D@> 9 :C :<:' C: ' >' $' $ @><' >' 9 :' $@ :<:=' ?><' 9 :<' : '> :<' *9 :' $ @><' C$ =' ' $C' 9 :' D;C >8' >?' 9 :' D>; < ' 9 :' D@> 9 :C' >?' 9 :' =:$=' :<:' $@ $ C' 9 :' < F9 '>?' 9 :' 9$ F (8$ Y

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D ' CF G' ' $IA' R AA' ' GM' 9 ' N"F ' J' IFJ' GBHAC AJ' EG'
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G "J' FCCAP ' P"FC J"K' IA' ' A E' IF ' IA' FE'P ' G ' GM'
IA' FK ' $G' E AA A ' ' IA' ' MG DF G ' ' E "' M IA ' F ' J'
ADG A' F"' PGEE B"A' ' P"AFEF ' ' AEE ' TF K' # F ' ADL
PG A AJ' TA" "" A' G' EFK' IF ' ' EIA' FE' ' G ' P APF AJ' G'
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G ' "K' I G NI' IA' ' GB"ADA ' ' G' IGD' IAK' G AJ' IA ' M E '
GBAJ A ' CA/ F ' J' I "A' IA' 9F "' GM' NK"A' IFJ' B ' G' F EA'
I E' M ' NA ' F ' J' 5 444' B AAC I "AEE' MG"" G A E' G "J' BA' AFJK'
F ' IA' DGDA ' ' G' MG"" G I D' I G NI' " MA' F ' J' JAF I ' IA'
EG A A N ' ' M' IA' ' GB"AE' IA"J' F"GGM ' CGD DF ' JAJ' B ' IA'
ECF ' K' EA CAE' GM' IA' ECF A AJ' FEEF"E' GM' IA' C G ' '
"F ' JE ' $IA' P AEA ' ' P GEPAC E' GM IA' =G ' A A' F ' "AFE '
P ACF G E ' #IA' MA" ' IF ' ' A IA ' EIA' IA EA"M' ' G ' %G I '
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L ; ' D> ; I' : ' F<$ =:' : E :' =:' 8 :' L ; @L ; :' H<>?? ' L ; ' 8 : ' (:C>;@=<$ Y '
C$ C?$ <: ' : ' L ; @' E>;C' D> :<$') * + ' ' (' ' ' A : \
= >D <> :<' @$' <:L ; :C C' L ; :' 8 ' @><=' B<;$< ' dN ' (Ce ' ' '
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='(P(' N F J J E FC AJ BK IA PFEE G'E GM #CG EI HMFC G'E #IA IFJ IA AMG A F" AFJK BAN ' IA F F'NADA' E MG @AB 1 ;' A' G"DA' GM F' CGDPF'K GM@ A'CI IF Q AB E' DA' >A @ A'CI JG K G "J PFK MG IAD $IAK CG "J BA CF""AJ IAX! 'CAE' 8 F J F'J %G I A"" CG "J CGDL DF'J IAD $IA DAE A A N G 'N DG A NA' F'J EIA G A F EACG'J"A A M GD #A G' >G EA G IA CIB EIGP GM 8"FENG JAE 'N I D G FEO F G'CA MG IA 'PF J F AF E I CI A A) 'N G IA / G FCCAP 'G AM EF" / M IA CG "J 'G NA IA IG"A G FOA FE D CI FE IA =G G "J N A / F'J EIA G "J IA' EA'J G A EGDA G'A G A'" E DA' MG IA EA CA E G IA D JA FE A JA' "K IGPAJ IF 'G I 'N DG A 'AAJ BA EF J G JG'A FBG $IA F" A F G' I CI IFJ PFEEAJ G A IA #CG EI PAGP"A I IA ?AMG DF G' IA AEPG'E B " K G 9 GPAF' GP ' G' IA EA'EA GM I CI FE EP AFJ 'N A A KL IA A I IA N G I GM ' A""AC F" " NI FE 'L MA" F'J 'CG'HAC AJ BK IA PF K FEEADB"AJ F #A G' / F'J FE "G'N FE > ' "K %G I A"" F'J NK"A IA"J GNA IA F'J IA"J I IA R AA' IAK CGDL DF'JAJ F MG CA I CI MG IA P AEA' IA A FE 'G G'A FB"A G A'CG ' A % IA 9F " GM -A''G(IG NI 'FB"A G FC

' '& ='?><' 9:'D>8H$ '>?'8: ($ (' $< C' :'H<$ ' >;' ;C:':E: ' 9:'@J:' =@F: D:' >'9$E:' 9:'8$:<'B<>;F9' >'H$CC' '?$E>;<' >?' 9:' 1< D:' >;<' C> ' $C' :' 8: > :=' ' >;<' > 9:<' @: :<C' C: ' >;' ?><' 9$ ' H;<H>C:' $ ='$@ 9>;F9' 9:' 9>@:' D>8H$ C' H$ 8: ' D$ >' B:' F<$:=' @:$E:' >' 'B;' $J:' 9$ ' 9 D9'C9$@@' B:' >??:<:=' *9:' D$H $ ' 8 ;C ' B:' >;<' C> ' ?><' 9:' @:; : $ ' 9:<:' C' > :' ' 9$ 'D>; <' fA<$ D:Z' 9>8

:' D$ ' 9:' D> : ' >' H@$D:' ' 9$ ' 8>8 ' "H> ' >;<'$=E:< C:8: ' :' C9$@@'C: =' 9 9:<' : 9:<' 9:' @:; :\ $ '><'C>8:'L;$@?:='H:<C> $F:'?><' 9 8' >' $J:';H' 9 C' D>8H$ 'B: F' $?><:9$ =' $CC;<:=' B ' >;' 9$ ' 9:' C9$@@' CH::=' $ =' >'? =' 9 C' <$E:@' ?<;C9($:' ' , ' , ' , ' + ' ' ' ' -' ' ' * . ' ' - ' ' A:B<;$<' U' 'E>@'

FE 'G J EPGEAJ G E JG ' I E PFEE A"K $IA R AA' GM #CG E IFJ A' C ""H G I D F'J IFJ P GMAEEAJ F EI G BA N JAJ BK I E FJ C^/ B IA O'A TF E CIF FC A GG A"" G E D P" C "K IA NA'A F" F'J EDGG I P GMAEE G'E >A D E IF A O'G ' IA MAF E I CI +F '"AK IFJ I DEA"M A(P AEEAJ BAMG A I E ADG F" G 7 O G @ A"J >A IFJ EAA' I D J 'N I E ""'AEE F'J CG "J IF J"K IF A BAA' JACA AJ FBG IA CIF FC A GM >A D E IF A IAF J M GD = F MG J IA PF C "F E GM TF K # F E E G 8"FENG /F'J M IA PAGP"A NA'A F""K G' DA A G F J N G 'JE GM E EP C G' A A F" AFJK MFE A' 'N PG' IA R AA' FE F' FCCGDP" CA ' IA D JA 'G JG B F F"" CG "J IF A AE AJ ' IA D 'J GM -A''G(G JF 'N G APF G 9J 'B NI IA ADF 'AJ F CI 'N IA J AC G' GM A A' E F I E IG EA F >G E G' ' ?A'M A EI A F'J M GD IA'CA IA AP" AJ G IA R AA' E "A A I F JADF'J IF EIA EIG "J 'E F' "K FEEADB"A IA A' A 'GB " K GM IA AF"D G ' AE NF A IA A(FG J 'F K CF FE GPIA

$IA P GP A K GM E CI F CG EA FE EG GB G E IF M IA R AA' IFJ AF""K JAE AJ IF IA I EIG "J BA J ECG A AJ EIA G "J IF A FJGP AJ GM IA G ' FCCG J G A'Q K FE PGEE B"A I "A IA =G F'J FJD ' E F G' A A 'JA IA CG' G" GM F E 'N"A MFC G' TFMK # F IG A A CF"D"K F'E A AJ IF EIA IFJ F" AFJK X CF EAJ P GC"F D F !F " FD AI I CI G "J DAA ' IA EP 'N G I 'N P "J IA' BA "AM 'L JG'A G M IA IA F" GM IA DF A F'J FE ''ACAEEF K G F' C PF A IA FEEADB"K -A''G(AHG 'AJ IF F D JA FE 'G X !F " FDA' DF A $ DA FE PFEE 'N F FK F'J IA FEEFEE ' D NI M"K IA AF"D ' IA ' A F" ! F C "F PA EG'E IFJ BAA' P B" C"K FCC EAJ F'J F "AFE >A TFHAE K D NI G JA

TOP
TF CI

IA F AE GM IGEA PA EG'E / CF"" IA -G JE GNA IA F'J ' A IA JA'G 'CA E G P AEA' IA A JA'CA #G IA EF JH EIF"" KG T FHAE K JG F' IG'G FB"A F'J NGJ"K FC ' 'B 'N 'N IA DF A G E C F 'F G PG ' FE A IA ' EIF"" FPPAF P"F '"K G A"EA IA COA E EIF"" BA MG 'J F ' GM IADEA" AE F'J IA PF AE E"F'JA AJ BA A(G'A F AJ F'J P G" BA K

CF"" GM IA PAA E G "J IF A B G NI P T FK IG"" TF F'J PGEE B"K G IA E IG M 'G +F '"AK E M A'JE KA G "J MAA" IA A'G D K GM IA D JA F'J IFJ 'G ' A AE ' IA CG'CAF"DA' GM IA C D 'F"E . 'JA IA P G AC G' IA KA F D ECA' GM IA FEL EFEE 'E CG "J BA FCAJ EGDA G G IA GM IAD BA CF NI F'J IA I DFJA O'G '

E DPGEE B"A d BA" A A IF TF K #M F JAE AJ F'K E CI AE " R A A JA' "K EIA JAE AJ G X FC DA IF IA A(C ADA' D NI J A F FK #IA F'E A AJ IF EIA CG "J 'G FEEADB"A IA -G JE BAMG A IA !F " FDA' X FE IAK G "J I 'O JG B"A CG' A' 'N IAF K G IAD/ FE G FPP AIA'J 'N IA PA EG'E 'FDAJ '' IA COA E G' IA $G"BGG I JGG IA A A EG DF'K IF EIA J J 'G O'G G' I CI COA G P GCAAJ / B AF 'N -A' 'G(' FE M CG'CA 'AJ I D G'"K F'J 'G IA EA"M G P B" C H E CA F F"" EIA EF J IF M FDG'N IGEA FCC EAJ IA A FE F'K G'A IGD IA JAE AJ G IF A B G NI G F" X PG' I E FJ A EAL DA' EIA G "J P GCAAJ G IA CGN' G' FO 'N

% TF K # F H FE 'G G AECFPA EG AFE "K "L IG NI +F '"AK E F'O F'J IA "J DF' A GM I E JAF I IFJ E F "AJ PAGP"A ' G DG A IF' E F" F A' G'

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IFJ 'G ' A AE E C C"AJ FBG IA R AA' BAKG'J IGEA !'"'
I CI G CIAJ IA EA"M F'J IA G 'E BHAC E IA D JA 516
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FBG G GPA' I #PF ' \ IA IA ' MFC IA !GPA F'J
IA =F IG" CE A A G E CCAAJ G MF " ' IA N AF AMMG
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FE DF A E JAPA'JAJ G' IA IA 9'N"F'J EIG "J
BA =F IG" C G ! G AE F' 5F'J IA IA 9'N"F'J MG
IF NA'A F G'G IF CA' K EIG "J BA =F IG" C G
! G AE F' JAPA'JAJ G' IA IA TF K# F FE G
FE 'G G BA "GGOAJ G FE IA IA P AE DP A G
9" UFBA I E C G '
 IFE BAA' EAA' IF IA DF FNA I +F '"AK IFJ
BAA' CG'E JA AJ F'J B G NI FBG FDG'N IA 9'N" EI
=F IG" CE I F E 'N"A A G I E A'J $IA P GPGEF"
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BAA' ANF JAJ BK 9" UFBA I F'J =AC " EIG AJ IG "F NA
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E GGJ 'A(G TF K# F ' IA " 'A GM E CCAEE G'
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IA AEK IA ' G' GM IA G P A A'E G'E IFJ BAA' F

DPI GM PG" CF" FJ G 'AEE F'J F DF A GM EPAC F"

516 N F JA G ! G JA'CA $I E IA' FE M E I EL

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$IA GP ' G' GM !F E FE FE JAC JAJ F'J FE JAC JAJ"K A(P AEEAJ FE IA GP ' G' GM 9J 'B NI $IA CIL B EIGP GM 8"FENG IA' IA "A A AFCIAJ I D J J I E BAE G PA E FJA PAGP"A G FCCAP IA A E G' GM IA E G K % TF K # F FE GG A"" O'G ' F IA @ A'CI =G F'J EG MF M GD BA 'N FB"A G CG' 'CA G IA E GM IA ''GCA'CA IA CIB EIGP A JA' "K FE 'FB"A G CG' 'CA I 'EA"M

X >A G "J IA EF J ' F'E A G IA / X IA G "J IA CG "J DFOA IA ' 'JA E F'J IF FE EF J GM IA D EA L FB"A E F A GM #CG "F'J elA J EIG'G GM IA 'GB " K IA D E E F'J AFEG' GM IA E BHAC E \ X VAF EIA IA EA"M FE N AF "K F'J G'NG E"K CF" ' ' G BA DG A P 'C PF" GM IA IG"A F'J F"" JG'A BK IA

G JA >A NF IA AJ M GD IA TFHAE K E"A A IF IFJ P"AFEAJ 8GJ G P AEA A IA G FOA NG G E A'L NAF'CA X >A CG "J B 'EFK IF F IA IF' IF A' NAF'CA A A 'G FOA' A A BA A ' I E G "J IFJ EIA "GE '" MA F' J F"" X G FE IA DA MG 'IA G EIG IF 'EIA JAEA AJ IF AP F G''MG A" N G'' I CI EIA IFJ NF 'AJ MG IA EA"M BK EIG 'N IA M E GM F' J JG 'N E CI'H E CA FE G IA IG"A G "J D NI JAL C"F A IA ' 'GCA'CK X $IA A E EF D CO"A ""6 EPGOA' IA CG'C" JAJ X IF FD CG'E F 'AJ G FEO KG DA CK IF 'CF' 'G DFOA IA AIAF EF6 IA AGM "FE TFJFD F""6 G A 9 GPA I E JFK IA A E 'G P PGEA ' IF' J EG M AQ A' FE GM KG TFHAE K F' J GM IA P AEA' E F A GM KG AF"D I "O E MG IA DGE PF ' A P A AJ E ' E A MK

TF K # F G "J IF A F IA IAF J M GD IA CIB EIGP IF IA IFJ GB F 'AJ IA DG'AK MG IA BGJK N F J F' J I E "A A D E IF A 'C AFEAJ IA F' (A K MG IA F F" M EIA FE ''GCA' F"6 I E DA IA N G 'J D E IF A BAA''P APF AJ BAMG AIF' J I DF A""G E EO "" %AMG A F'K A JA'CA NA' 'A G MG NAJ IFJ BAA''P GJ CAJ FNF 'E IA G'' IA M E 'A E GM IA CF FE GPIA IA NA'A F6 'E 'C IFJ EA "AJ PG'' IA FE IA P 'C PF6 GMMA' JA M IA A BA F J C " K '' BA" A 'N IF EG KG 'NE`! 'CAEE G "J IF A "A' IA EA"M G E CI'F C DA E E 'N "F IF IA M A' JE '' !F E IG A A DGE ' A AE AJ '' IA A"" JG 'N EIG "J IF A H DPAJ EG AFJ "K G AG IF J F CG'C" E G' IFE BAA''F" AFJK DA' G'AJ IF FDG'N IA M E G B 'N IA 'A E G -G'JG'' FE TG A D ' EL A GM IA + OA GM #F GK F TF K # F E =G

* 9 :' &<D9B C9>H >?' 4@$CF> >' + $< ! ;$< + $<D9' O' H< :=' B (# : 9' _ 12 'D$H' @>

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G H#CG "F'J $IA GP ' G'' GM TG A \ F =F IG" C F
F D M A'J GM IA R AA' F'J M AEI M GD IA ECA'A\ E
GM CG'E JA FB"A DGDA' $IA EACG'J JFK FM A IA
D JA IA I AJ F FK M GD 9J 'B NI X BA A
P"AFEAJ I I E A ' FE IA A(P"F 'AJ G # * "" FD
+ K G' I E PFEEFNA I G NI %A CO IF' IA' IA
A' IF FK G IA ECA'A GM I E ADBFEEK) ' AFCIL
'N -G'JG' IA IFE A'AJ G IA #PF' EI DBFEEFJG
>A FE CF G E ' IF IA EF J B IA' JA # " F
C GEE Q AE G'AJ I D FBG IA R AA' F" IG NI IA J J
'G A(P AEE"K CG'JAD' IA IA EF J 'G F G J ' IA
A(C "PF G' F'J "AM IA FDBFEEFJG CA F '"K G 'MA
IF IA E EPAC AJ IA G IF A BAA' N " K >A DA'L
G'AJ FDG'N G IA C C DE F'CAE G'A I CI IFJ "AM F
PF 'M " DP AEE G' PG' I D +F '"AK EAADE IFJ
' A'JAJ G P AEA' F PF GM IG EAE G IA + OA GM
#F GK F'J F JFK G G BAMG A I E JAF I IFJ G"J IA
R AA' IF IA EIAJ G EAA TG A #IA IFJ EF J '
F'E A IF TG A FE EG F'N K FBG ? UU G E D JA
IF IA G "J 'G NG 'AF I D EIA IFJ 'G IA E" NI AE
N G 'J MG E CI F E F ADA' F'J IFJ G '"K EIAJ G
P A A' IA ' A A
) ' IA < I # ?GBA TA" ""A F AJ I' TF K
F E"A A @ GH ' I D JA # " F"AF ' M IA PF L
C "F E B FNF ' 'G I 'N G AFEE A I D TA" ""A
'JAAJ EF J IF IA R AA' FE ' 'GCA' / B IA N A
CG'M EAJ IA' IA FE / AEEAJ C"GEA"K f F'J I E JAMA'CA

' 1><'@$C'L;$@:C'H$<:D:'L :' =;D:' H$@$B<$' >'@$'C$ Be' $=$ % " '
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@$'5: $' :C :' <$ $=>' ' $; 'H; \ '
X =>@:' L;:' 8:' = 7:C:' @>' L;:' @:' -' 0+
H$<:Dg$' D> ?><8:' $' @>' L;:' :@ 9$B $' ' ' :>@:'$@FH'D> ?;C> % " ' . '
E C >' ' D>@:F =>' :' @$' 5: $' : $' ' 'A:B'I$' '3
D;@H$'=:@@>'$; L;:' >'@$'D> =: e' =:

FE DFJA DG A J MM C " IA' BACFDA O'G ' IF 'E AFJ GM ADF ' 'N ' A ADA' F >G"K GGJ IA R AA' FE FD E 'N IA EA"M I IA CF F" A E F #A G' DG 'N IA"G JAE G A(C"F D FNF 'E IA FE -FJK TF NF A -A' 'G(+F '"AK E DG IA IA DFOA GM IA DF CI I CI IFJ A' JAJ EG J EFE G E"K $I E"FJK IFJ BAA' I IA G A(P F 'N IA GMMA'CAE ' IF DF A ' F GGD ' IA $G A #IA FE A"AFEAJ DDAJ F A"K FM A IA D JA F' J FE BAE AN 'N IA =G I IA C"FDG E TA" ""A CGDP"F 'AJ GM IA "F'N FNA G JA # " F B JA # " F CG "J 'G AM EA G EKDPF I EA I IA

X G"J TA" ""A IA G A X IF FE 'G E P EAJ $IA EAE DA' G "J F DAE MG NA IADEA" AE 'A(CAEE G!EG G D CI DG A F GDF' 'F CFEA EG P AG E $G E 'G EIA F"G'A IG E EPAC E IA R AA' G BA N " K GM IA D JA / IA A E F NA'A F" GP ' G' IF IFE BAA' JG'A ' A A'NA MG IA F" F' EAC A F K X $IA IA A CE JAC"F A IA N " G BA CA F ' IA J E" OA GM IA FEE E 'N IA E EP C G'E $IA =F IGL " CE F A J JAJ $IA 7 'N E PF K F A G"A' F' J F'N K >A G ' M A'JE JAMA'J IA E ECF CA"K CG'CA FB"A IF F ! 'CAEE IG IFJ N A' EG DF'K P GGME GM P A K F' J A EIG "J IF A CG'EA' AJ G E CI F B E 'AEE/ B EIG "J EG ' G G IF A BAA' EIA "" "GEA DF'K M A'JE F'J IA AE G F G' GM IA =F IG" C MF I ' I E AF"D I G NI IA 'L E DA' F" K . IF A BACGDA DG A J MM C " IF A JG'A F"" IF FE PGEE B"A BG I I IA R AA' GM 9 'N"F' J F' J G IA E FE ' KG T FHAE K E EA CA FD BG 'J G JG/ F' J 'FED CI FE IA ' A AE E F E FOA F A EG CG'E JA FB"A IF A A' AF AJ IA > NI 'AEE G

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#'6 FOA 'G PGE A E AP IG CG'E " 'N IGEA IG F A NGGJ M A'JE G KG T FHAE K > G A A BA IA CG'EAQ A'CAE CF''G MF '6 G BA EA G E $I E R AA' PA IFPE DFK EA IA GPPG ' K G ' A MA A ' #CG "F'J 'G MG F'K"G A I CI EIA MA" MG IA "F A O 'N B MG IA G ' P PGEAE IA C C DE F'CAE FPL PAF 'N G M ' EI IA I F AFEG'FB"A A(C EA

$I A BA" AM ' T F K # F E ''GCA'CA I E FPL PAF E FE " D AJ G F E 'N"A M FC G' GM IA 9'N" EI =F IG" CE \ ' G IA G JE G IGEA IGEA ' A AE E 'L C" 'AJ IAD G F MF G FB"A H JNDA' GM IA % IA A FE G'A PA EG' IG M IA PGP "F IAG K GM IA A"F G' BA AA' IA G EG A A N'E E CG AC EIG "J IF A ' EIAJ F G'CA 'JA F"'6 IA 'M" A'CA GM P B" C F'J PA EG'F'6 HAF"G EK G IA DGE 'MF G FB"A CG'L C" E G' F'J KA IG E EPAM JAJ IA H JNDA' F'J AL DF'AJ 'C AJ "G E 9" UFBA I IA EA"M ACA AJ IA 'A E GM IA D JA I P GMG J ADG G' #IA FE ' DG ' 'N IA' EIA FJD AJ TG A G F' F J A'CA TA" ""A F'J I E DAEEFNA A A BG I AD 'A' "K 'EF EL MFC G K F'J EIA FE CG' 'CAJ IF IA A FE EGDA CG'L CAF"AJ DKE A K I CI IA R AA' GM #CG E CG "J IF A A(P"F 'AJ DG A M ""K M EIA IFJ CIGEA' TAFE AE GM P ACF G' A A FOg' F IA PF"FCA MG Ib BA A EAC K GM 9" UFBA I G ' E"AAP 'N GGDE F'J IA N F J FE E M AJ F'J EC ' EAJ #IA G"J JA # " F IF D CI FE EIA IFJ J EFPP G AJ GM IA DF FNA IA D JA AJ ! 'CA FE IA CG E ' F'J EIA D E 'E E PG' F' A'Q K ' G IA C C DE F'CAE/ KA IG A A IA G "J D NI D D EIA CG "J 'G BA " A A IF IA R AAI GM #CG E FE IA EA"M FCCAEEG K

' 2 :' ! @E$' >' 19 @ H ' 1 :B ' P ' *9 :' ><=C ' @@ :' :7 ' $<:' :7 <$D :=' A :B ' (- , ' A :B ' KO Y ' ' ?<> 8 ' 9< : :' = ??:<: ' =:CH$ D9 :C

G " E JAF I # IA J A" PG ' A A K PG ' ' IA = P(E G K I CI EAADAJ G DFOA MG IA $IA APG IF 516 EIA FE NG 'A I %G I A"" G #A G ' EIA AHAC AJ FE +$<D9

A "K ' C AJ B"A "" FE P G AJ BAKG ' J PGEE B " K GM JG B

+A # " F ' G IE F ' J ' N I E P F A GP ' G ' A 'L CG FNAJ IA ECAP C ED TG A IF ' G 'A 9 'N" EI ' GB"AL DF ' IG IFJ I IA G MF G AJ IA #CG EI E CCAEE G ' IFJ JAC"F AJ I DEA"M FE ' A ' J 'N MG IA M A G FJ GL CF A IA F "C"F DE GM -FJK =F IA 'A 8 AK IG IG NI JK 'N E"G "K GM IF EI AF DA ' IFJ KA EGDA DG ' IE GM " MA BAMG A IA F ' J IFJ BG 'A CI "J A ' GM FDB N G E "AN DFCK G ' IA IF NI EIA PGEEAEEAJ 9" UFL BA I ANF JAJ I E 'MG 'F A GDF ' I F JA AE F G ' F ' J CJI ADP BAKG ' J IF EIA IFJ MA" F IA G E DAE MG T F K # F +A # " F O 'A IA ADPA F ' J G OAJ PG ' IA HAF"G EK BK E NNAE 'N F " OA" L IGGJ GM EGDA DG ADA ' ' -FJK =F IA 'A E MF G

#IA EF J EIA G "J F G 'CA EA ' J EGDA G 'A JG ' G #CG "F ' J G A 'Q A ' G IA I F ' J A 'FB"A IA G E "A 'CA IA ECF ' JF"G E APG E I CI A A M"K 'N $IA R AA ' GM #CG E D NI IF A BAA ' JAAP"K ' MF " / EIA IFJ BAA ' G ' BFJ A DE I IA I EBF ' J/ EIA IFJ PA IFPE MA" " "A AN A MG I E JAF I F ' J IFJ BAA ' C "PFB"K ' ." 'N G J ECG A G P ' EI IA C D 'F"E / B 9" UFBA I FE HAF"G E GM IA IG 'G GM F EG A A N ' P 'CAEE F ' J I E FE IA G E I CI EIA G "J F""G

%G I EIA F ' J =AC IG NI IA GPPG ' K F MF G L FB"A G 'A MG A D 'F 'N IA J EG JA E GM #CG "F ' J F ' J EF 'N T F K # F IA EA"M M GD IA PA "E ' I CI IA CF A"AEE ' AEE F ' J MG""K A A ' G" 'N IA M IA

= !(' AF K GM -A I FE 'G F M AJ IFJ BAA' F" F"G'N

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'JA E GGJ IF IA ACGN' G' GM TF K # F FE 9" UFBA I E IA G "J EPAAJ "K MG""G $IA G CG ' AE G "J IA' F ''G J E F' DA IA ' AJ F' J IA GCCFE G' D NI BA EAJ IA' TF K # F E C CF PGE G' G "J EAC A IA CGDP" F'CA G NA IA G FCCAP MG IA EA"M IA DGJ M AJ ! G AE F' ED GM 9 'N"F' J F' J G A A IA G"J P GHAC GM F P A" D 'F K ' G' GM IA =I CIAE

>G A A 'EAFEG'FB"A IA ' E G' GM E CI F E BHAC F E CI F C E E DFK F M E E NI FPPAF P G AE F F' K F A IF 9" UFBA I J J 'G FE KA CG' ADP"F A IA P GBFB " K GM F Q F A" I IA CG E ' FE G'A GM IA CG'EAQ A'CAE GM IA DK JA G EIA G "J 'G IF A CIGEA' IA DA G P GPGEA F DAFE A I CI G "J 'ACAEEF "K J F IAD C"GEA GNA IA $IA DG A E CG'E JA AJ IA DG A A JA' "K . BA EAA' G IF A BAA' F GOA' GM AEEA' F" NGGJ "" F' J IA AMG A ' IA DF ' GM CG'M JA'CA # >A' K 7>" N A FE CIGEA' FE IA 'E DA' GM I E A"" ' A'JAJ B A' A"K EA"AEE J P"GDFCK >A FE J AC AJ G EG 'J IA D ' E A E GM IA 7 O G' IA PGEE B " K GM IA BA 'N 'J CAJ G CG'EA' / I "A =AC " BK "A A ' AJ TF "F' J G G O PG' IA R AA' GM #CG E $I E FE PF GM 7 "" N A E D EE G' $` A G IA

' 6 :D @ C @: :<' > ' 9 :' C ; B :D ' 9$C' ' =$<:' B :' B>@=' : > ; F9' >' ; :<' 8 ' > ' B : : ' ?>; =' B ; ' + $ @$ = C $ \ ?$ D ' ' ' >' / :<' + $:C ' <; C F' C :<' >' ' C ; <E E :C ' + $ @$ =' C' 9$ ' C9 : @@' > ' @ J :' 8 :' 9 :' ><C :' F@$=' >?' $ 9 F' 9 D9' >; @=' = E :< ' ?><' ; :< F' 8 ' >H > ' $ =' J > \ 9 :' 8 =C' >?' , @ I$B : 9' $ =' 6 :D @' @ : =F :' ' 9$ ' 9 D9' C' H<>? $B@ :' ?><' ?<> 8 ' =$ F :<> ; C' F<>; =' A><' 9 :' 9 :<' E :< ' $ ' $ =' '=>' > ' = :CH$ <' 8 $<J ' 9 :' <> : ' $' >' 9 D9' >; ' =>' B ; ' $@ 9> ; F9' C9 :' @@' > ' :@=' $ ' C9' ' >; <' @: :<' 'C9> ; @=' C9>> ' $ ' 9 :' ? <C ' : ' 9' H<>F :CC' >?' 8 :' >' ' 9$ ' / :<' + $:C ' >; @=' $@@> ' 9$ ' H> ' C9$@@' B :' >B $:= Y ' >; <' :C $:' ' <:@ F > ' ' ' > :' >?' ' ' ! ' + $<D@7' M' ' 9 :' 9 FC' > ' :$< 9' ' 8 >C ' = :C <: ' 5 '

FE G FECA F ' FE MF FE PGEE B"A IA I FBG
IA D JA F'J G DP AEE G'' TF K# F IA EA"M F 516
OAA'A EA'EA IF'' EIA EAADAJ G MAA" GM IA MF " E GM TF CI
A J AE F'J GM IA JF'NA FE IA EFDA FJ CA
I CI IFJ BAA'' NAJ PG'' IA BK IA CIB EIGP GM
8"FENG F'J 9" UFBA I G N A ADPIFE E G A G
IA I IA G '' IF'J

X TFJFD EIA EF J X DK AF E IF A BAA'' EG FE G 'JAJ
DK D 'J EG J E BAJ DK IAF EG EIGCOAJ F IA 'A E
GM IA FBGD 'FB"A D JA GM KG "F A I EBF'J IF
A A'' KA CF'' ECF CA"K F""K DK EP E G A G KG /
F'J IG A A G "J A(P AEE DK EKDPF IK '' KG
EG G MG I E"GEE EG G A"" KG P"F '"K IF I 'O
DK N AM E DG A MG KG IF''MG I D)I TFJFD
EIG "C "" M "M " IA PF A IA GM F MF IM " CG E '' G
GM F'' F MAC G'F A M A'J M A A G CG' A' DKEA"M
I EFK 'N P"AFEF' I 'NE G KG F'J DFJA 'G AM B
G P AEA A KG IG'G CF''G B A"" KG IF
F"" IA G "J E I 'O 'N TA'' EFK IF 'E AFJ GM
EA U 'N IA D JA A E KG F A "GGO 'N I G NI KG
M 'NA E I "A IAK AECFPA/ IF KG "" 'G P ' EI
IGEA IG IF A JG'A KG EG N AF F EA CA FE IG NI
IA I 'N G "J 'A A IF A FOA'' P"FCA IFJ 'G IA
JGA E GM BAA'' FEE AJ GM DP ' K

X@G ' 'KEA"M BAEAACI KG G" " A A IF G "J 'G
IF BG E CI F IG NI MG F"" IA AF" I GM IA G "J
'G G "J ' A' A F '' DK IAF EG "" F N AE G
I 'O EG BFJ"K GM F'K ! 'CA I B AF IAE @F "AEE
CG "J EG I 'O GM KG G IGD JAE A F"" DFN 'FB"A
NGGJ F'J F"" B"AEE 'NE I CI KG.KG EA"M CG "J EI
MG % MG I E A K AFEG'' A(IG FJ EA DP"G A
KG JAAP"K G CG'E JA GM IA DF A \ F G'CA M BA
IA 'AF AE M A'J KG IF A G"FK KG IF'JE PG''
IA DF'' IG IFE BAA'' N " K GM IA C DA\ G"A 'G

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' A AE ' 'G PA E FE G' ' OAAP KG ' M GD' P G 'N G' A A K
G'A' IF ' KG ' F b' F' 'GB"A' ! 'CAEE' F' J' F' "GKF" MA ' '
JG' G ' A' I E' AF 'AE "K' BACF EA' ' JG B ' KG ' B ' MG '
IA' "G A' I CI' ' BAF ' G F JE' KG ' VG ' DFK' IF A'
EA ' CG 'C ""G E' IF' ' ' FD \ ' CF' ' A"" BA" A A' \ '
B ' A A' ' G ' -G J ' FE' ' ADADBA ' IFJ' F' ` JFE' FDG 'N'
IA' A" A' I "A' ' FD' E A' IF ' KG ' IF A' 'G' M A' J'
DG A' A' IF' ' ' F' J' DK' FMMAC G' ' DFK' E F' J' KG ' ' '
FE' NGGJ' E AFJ' FE' IA' E B "A' E' GM' G IA E

PPGE 'N' IA' R AA' ' GM' #CG E' G' IF A' BAA' ' AF""K'
M AA' M GD' IA' JAAPAE ' EIFJA' GM' N " ' IA ' F DAE ' M A' J'
CG "J' 'G ' IF A' A' ' DG A' O ' J"K' G ' FJ EAJ' IA ' DG A'
H J C G E"K ' $G' IF A' MG""G AJ' IA' CG 'EA" EG' N A' ' IFJ'
IA' PG A ' BAA' ' "AM ' IA ' G "J' IF A' BAA' ' G' JAMAF ' IA'
IGPAE' GM' F"" IG' JAE AJ' IA ' ' ' F' J' G' ACG A ' G'
IA EA"M' IF ' AEPAC ' F' J' IG' G ' I CI' IA IA ' N " K'
G ' ' 'GCA' ' EIA' FE' AQ F""K' MG MA 'N

T F K' # F ' IG A A ' MG ' IA' P AEA' ' FE' 'CFPFB"A'
GM' ACA 'N' FJ CA' 'G ' J J' 9" UFBA I E' G JE' AFC I' IA'
A(NA 'C AE' GM' IA ' PGE G' ' $IA' FCCG ' E' I CI' AFC IAJ'
IA ' M GD' EG' DF' K' E JAE' D NI ' 'JAAJ' IF A' A Ah"AJ' IA '
IA' E G D' I CI' FE' NF IA 'N' F' J' EG' IF A' F FOA' AJ'
IA ' MAF E/B ' GM' MAF ' EIA' FE' CG 'E G' F""K' 'CFPFB"A '
$IA' F F" GM' 9" UFBA I E' DAEEA 'NA ' G CIAJ' IA ' G' "K'
EG' MF ' IF ' ' ACF""AJ' ` A ' G' IA' 'ACAEE K' GM' GBEA 'N'
IA' MG DE' GM' JACA 'CK ' F' J' IA' ' EIA' IAF J' IF ' EGDA'
G'A' FE' CGD 'N' EIA' IFE A' AJ' BFCO' G' > G"K GGJ' H E ' ' '
DA' G' ACA A' I D ' ' 7 "" N A ' AFC IAJ' 9J 'B NI' G' '
IA' 0 I' GM' TF CI ' G' A' JFK' BAI ' J' IA ' >A' FE' A' A L
F ' AJ' F ' J ' ' A ' BK' IA' C" Q A' IG' IFJ' F A' JAJ' IA ' G'
#A G' ' F' J' ' ' IA' FM A ' GG' ' FE' FJD AJ' G' F' B AM' F J

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A'CA $IA 'JG E A A IF"M C"GEAJ IA GGDE A A = P(F
JF OA'AJ F'J ' IA P GMG 'J N"GGD IA 9'N" EI D /*%
BFEEFJG FE 'FB"A G EAA IA R AA' E MFCA B BK / $<D9
BA G JE EIA EAADAJ X A K JG"AM " #IA A(P AEEAJ
IA EA"M F D"K N F AM " MG 9" UFBA I E O 'J'AEE B
EF J" "A GM IA D JA F'J 'AJ IA CG' A EF G'
CI AM"K'G' PG" CE #IA EPGOA GM A"F'J F'J 'JA GGO
G P A A' IA E BHAC E M GD N 'N G B"A IA A / EIA
APAF AJ IA "" 'N'AEE G F MK IA AF K GM -A I F'J
P GMAEEAJ IA EA"M NA'A F""K F'(G E G DAA 9" UFBA I E
EIAE * I IAEA NA'A F" A(P AEE G'E EIA PA IFPE
IGPAJ IF 7 "" N A G "J IF A BAA' CG' A' AJ B 'G'
G'A PG ' I E G JA E A A PGE A >A AP AEA' AJ G
IA IA 'F' D K I I CI %G I A"" IFJ BAA' MFE A'AJ
PG' FE G'A GM IA D JA A E GM IA 7 'N/ F'J BAMG A IA
GGO I E"AF A IA E CCAAJAJ ' A(G 'N F P GD EA M GD
IA IF IA 9F EIG "J BA P PG' I E F" > E
E FK ' #CG "F'J FE G BA B AM F'J IA" "A I CI IA
E AJ I DEA"M G A FE A(ADA"K N F JAJ $IA
PAGP"A IA FP J"K MG 'J A A ' 'G I DG G A' A F '
Q AE G'E GM =I CI PG" CK $IA D 'J GM A A K G'A
DE A AJ G' IA G'A F"" FBEG B 'N E BHAC E G IA
PA PA F G E IA EF J IA A A X N AF E EP C G'E B
'G P GGM F'J EG MF X 'G G'A IFJ BAA' FPP AIA'JAJ
X >A EF 'G P AEA' FPPAF F'CA GM G B"A B F NA'AL
F" D E" O 'N FDG'N IA CGDDG'E F'J EGDA G IA E
I CI FBIG AJ IA JA AE FB"A D JA GM IA 7 'N FE
F EIFDA G IA IG"A 'F G' \ IA P AFCIA E P FK 'N
GPA'"K IF 8GJ G "J P"AF"A BG I G A AF" F'J AL
A'NA \ A(IG 'N F"" DA' G P FKA F'J APA' F'CA

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9 :' ($ 9 :'=> :' B ' 9 :'%; : : '?><' 9 :' ' ' '
>BC :<E F'>?'9 :'H<>8 C :' >' + <' # @@ (' ' ! <' / ' # @@ F<: ' >' 6 :D @' + $<D9'
F<:('?><'C9 :' C$ =' $ =' $CC ;<:=' 9 8' U Y ' ' '
9$ ' 9 :' , $<@' C9>;@=' B :' H ; ' ;H>

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) 'A G IA PA EG' GM 'G A IA EF F'J IF FE IA 9F " GM T FK\ T FK IGEA CG'J C ' IAEA DF L A E IFE BAA' PF ' AJ ' FE B"FCO CG"G E FE I E E E A E FE PF ' AJ BK % CIF'F' T FK E 'CA IA D JA IFJ ADF 'AJ Q A \ JG 'N 'G I 'N BACF EA IA EF ' 'GL I 'N I CI IA CG "J EAM ""K JG > A IFJ DFJA G'A AMMG G F AE # `FDAE %F"MG B IA IFJ BAA' 'L E F' "K C GEEAJ BK %G I A"" F'J IA CG "J E 'G M L IA IG CF"" 'N G' IA CGDDG'E G FOA F DE\ F JAEPA F A DAFE A MG I CI IA DAE A A'G KA PA > A FE IA AMG A P GPGE 'N G IJ F FE Q A "K FE PGEE B"A ' G @ F'CA > A G A BK 7 "" N A E IF'JE G =AC " MG F EFMA CG'J C G PFEE I G NI 9 'N"F'J F'J CF AM " G'"K 'G G E A"" IA FCC EF G'E I CI A A E 'N FNF 'E IA R AA' IA A' AF AJ IF IA IA =AC " 'G F'K G'A X EIG "J H JNA FEI"K ' EG IG B"A F C DA f

* I I E F'J IA "A A M GD TF "F'J FBG IA ' G' GM IA =I CIAE 7 "" N A ' "AEE IF' F AAO A 'AJ G -G'JG' > G EGG'A FE I E BFCO 'AJ IF' IA R AA' A' FNF ' G #A G' / F'J 'G MG IA M E DA BANF' G BA 'JA E GGJ IF F" IG NI %G I A" FE G'BA AJ MG IA 7 'N E D JA IA FE ' A'JAJ MG IA 7 'N E E CCAEEG F'J IF F' 'G J E F' DA IA R AA' DAF' G DF K I D > A IFJ F MA F" AFJK 'JAAJ FE IA AFJA O'G E\ F 8G JG' -G J !" ' "K E E E A IGD IA IFJ B "F A"K AJJAJ/ B IA A A DAF'E GM IGF" 'N IA G 'J ' IA 8G JG'E IG'G BK IA AE G F G' GM IA MG MA AJ AE F AE/ F'J > ' "K EAADE IG NI I EGDA D EN 'NE FE F CG'EA' 'N PF K ' IA EIFDAM " CGDPFC

' ! <' >9$'A>C :<' >' 6 : D @ ' + $<D9' ' + ;<<$ ' >' 6 : D @ ' + $<D9' M (' -6 " ' '

* A F A E APP 'N ' G F AN G' Ib A IA A K F DG $
EPIA A E EF F AJ I MF"EAIGGJ IA A IGEA IG G L 516
F J"K A A BGEGD M A'JE A A P"G 'N AFCI G IA E +$<D9
JAE C G' F'J IGEA IG A A FPPF A' "K FE N " K FE
%G I A"" I DEA"M A A KA FEE D 'N F' F JA G I D
F G'A DGDA' GM C 'N 'N E BEA A'CK F IA 'A(GM
IA M A CAE 'J N'F G'/ IA A CG'EP FCK FE EP '
I 'CG'EP FCK F'J IA "G"A I '" AE B AJ BAL
KG'J IA AFCI GM CGDP"A A J ECG A K #GDA I 'N
IG A A M 'G F"" DFK BA JG'A G F JE ' F A"" 'N
IA DKE A K

$IA A E D CI AFEG' G I 'O IF IA ' A' G' GM
FEEFEE 'F 'N IA '" COK >A' K +F '"AK FE O'G '
MF BAKG'J IA C C"A GM IGEA IG A A DDAJ F A"K
CG'CA AJ ' IA A(AC G' GM IA JAAJ IFJ BAA'
MG AEAA'M GD IA M E BK IGEA IG 'JA E GGJ I E CIFL
FC A F'J IG O'A IG 'CG' A' A' PAGP"A A A
J EPGEAJ GM ' #CG "F'J IF I E "MA X G "J BA GM 'G
"G'N CG' ' F'CA IA A > E "GGEA IFB E IFJ AF "K AEL
F'NAJ I D M GD IA R AA' $IA +G N"FE E F'J I E
G IA O 'EDA' IG IFJ HG 'AJ I D ' IA D JA GM
9 UU G IA IFJ CG' A AJ ' G DG F" A'A' AE BK I E
JAEA G' GM IAD FM A F JE >A FE F G'CA DAJJ"AL
EGDA F'J 'CFPFB"A AFO F'J CG F J"K KA 'EG"A'
F'J 'DF'FNAFB"A >A IFJ F DAJ J"K F IA " MA GM
IA 9F " GM T FK >A IF ' M JAJ I DEA"M ' G
PG" CE F'J IFJ A' A(F G E "A A E G IA !GPA
F'J G IA 7 'N GM #PF ' E IA IA GM IA >G EA GM
-A''G(IA FE IA 'F F" A'ADK GM i A >FD " G'E F'J
F"" IA PG A M " O 'J AJ/ F'J ''G'A FK G F'G IA
IA IFJ N A' CF EA G F"DGE A A K 'GB"ADF' ' #CG L
"F'J A(CAP I E MF IA G MAA" I E P AEA'CA IA A 'JAL
E FB"A > E CGD 'N F F"" IG NI E BD AJ G G GM
JAMA A'CA G IA 9'N" EI =F IG" CE IFJ A AJ E"AAP 'N

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+ $<D9

' MA JE F' J IFJ B GOA' P IA ' K GM IA =G 'C "'
I "A F IA EFDA DA IFJ AE F' NAJ 9" UFBA I F' J
F" A' F AJ IA ! G AE F' -G JE IG IFJ BAMG A BAA' FE
"G J FE IA AE ' C"F D 'N IA 9 'N" EI E CCAEE G' MG
IA EG A A N' $IA DF FNA EG MF FE #CG "F' J FE
CG' CA 'AJ IFJ BAA' F D E FOA =G "J IA IF A BAA' NG
J GM BK F J G CA I E" MA D NI IF A BAA' EPF AJ/ B
F J G CA G "J IF A F ' AJ IA ! 'CA E "AN DFCK
F' J IA ! 'CA E B I IFJ N A' AB"A E A'N I G IA
R AA' E PF K ' 9 'N"F' J \ E A'N I E MM C A' D NI
BA IGPAJ G G A CGDA FM A IA M E EIGCOH IA J EL
P"AFE A I CI D NI BA C AF AJ FDG'N IAD BK I E
MF IA E ADG F"

"" IAEA PG ' E IFJ BAA' F"OAJ G A F = F ND "" F
BAMG A IA BFP ED GM `FDAE F # " 'N BG' J FE
E N' AJ IA A BK NK"A %G I A"" > ' "K # `FDAE
%F"MG F' J PA IFPE BK TF "F' J IA F G AJ GBHAC GM
I CI FE +FD "AK E JAF I TG G' BK I E G ' CG' L
MAEE G' FE ' AJ G HG ' F' J IFJ G' "K E EPA' JAJ I E
CG' EA' "" FEE AJ 'JA IA R AA' E IF' J GM IA FPL
P G F" $IA A A G IA 'NE F"EG " "" BA EAA'
I CI A A FM A F JE JAE GKAJ BACF EA DG A 'FDAE
A A CGDP GD EAJ BK IAD % EAADE AQ F""K CA L
F ' IF IA A"F G'E BA AA' IA R AA' F' J %G I A""
A A OAP EAC A BA AA' IADEA" AE +F '"AK FE G
BA DFJA F jK I G' "K G GPA' F FK G EGDA 'GB"A
F"" F' CA I @ F' CA G #PF '/ CA F '"K 'G IF I E
P"FCA D NI BA IOA' BK F MM F' %G JA 9F " IGEA
A"A F G' D "J BA IA I GE MF F" GM GBE FC"AE G' IA
R AA' E GFJ G IA I NI P"FCA I CI #CG CI FDB G'
JAE AJ MG IA

G FNF ' A A IA G IA ' 'GB"ADA' \ '"AEE PA IFPE
NK"A BA F' A(CAP G' \ FCQ F ' AJ BAMG AIF' J I
IA DAF' E BK I CI IA D JA FE FC F""K AMMAC AJ

>FJ IA G O BAA' "AM G E CI F DF' FE TF "F' J => !(' IA A CIAJ C AF A G "J IF A BAA' DFJA F FK 516 I BK PG EG' \ FE FE 'E CCAEEM ""K AJ F # " 'N +$<D9
\ G ' EGDA F M C F""K C AF AJ Q F A" ' G BK EGDA CG' F'CA ' I CI MG "P"FK IG NI D NI BA N AEEAJ F CG "J 'G IF A BAA' P G AJ ' IF CFEA D NI IF A BAA' IGPAJ IF 9" UFBA I IG IFJ P GC"F DAJ +F '"AK F G IFJ IA"J I E DG IA C"GEA P EG'A ' IA $G A H IFJ AEA' AJ IA DF FNA FE F' DDAJ F A F FCO PG' IA C G ' G "J 'G "GGO GG C G E"K ' G F CFE F" K EG D CI G IA FJ F'L FNA/ F' J TF K # F M AA G CIGGEA F'G IA I EBF' J D NI DFOA M AEI CG' J G'E MG IA P"FCA ' IA E CL CAEE G'

% !'%G I Z A"" IFJ IJ F ' IA DF'FNADA' ' G I E G ' IF'JE " IG NI TF "F' J FE ' CG AL EPG'JA'CA I IA R AA' IA' +F '"AK FE B G NI P M GD 8"FENG G 7 O G'@ A"J IA A E 'G AFEG' G E PPGEA IF IA FE FJD AJ M IA ' G %G I A"" E P"F'E/ F' J IA D JA IFJ BAA' B G NI FBG I E CI 'NA' G E F O F J'AEE IF IFJ E F "AJ F"" 9 GPA ' G F A' G' . 'FB"A G DG A MG IA E NL 'F AE CGDP GD EAJ IAD IA -G JE CG "J B E E "" F' J F MG IF FE G MG""G / B E AFEK G 'L JA E F' J IA F G' I kEI CI IAK D E IF A ANF JAJ IA ' J 'N B"GCOIAFJ IG IFJ DF AJ IA NFDA A A' IG NI IAK CG "J EAA 'G P AEA' DAF'E BK I CI IA MF " CG "J BA AC M AJ / E AFEK G CGDL P AIA' J IG ' A'EA D E IF A BAA' IA J EN E FE IAK BANF' G M 'J IF FM A F"" IAK IFJ BAA'%G I A"" E J PAE \ IF IA IFJ%AA' E 'N IAD FE IA E APL P 'N E G'AE G I E G '" E F' J I E G ' FDB G'

$IA PGP "FCA GM 9J 'B NI IFJ CGDA AF "K G IA ' CG'C" E G'E G' Ib A"F G'E BA AA' IA R AA' F' J

=> P(' IA 9F ") ' IA A ' G #A G ' FM A 7 "" N A E JA
516 PF A F" IG NI EIA IFJ P GD EAJ IF IA EIG "J
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G CG 'CAF" IA MF G I I CI EIA ANF JAJ I D
$IA A A A DGDA' E IA' IA JF 'NA E CO IA F' J
EIA IFJ PFEE 'N IG NI E GM M"K 'N G @ F 'CA B EIA
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GM #A' J 'N G CG 'JG"A I IA G ' IA JG IGGJ $IA
GM"%CA IFJ BAA ' P GPGEAJ G IA TF Q E JA ?FDBG ""A
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IFJ A ' G A"" IA IF M EIA J J 'G A(A IA EA"M
G J ECG A F' J P ' EI IA FEEFEE ' EIA G "J CG A
IA EA"M I 'MFDK F' J IF EIA CG "J A(PAC G IA
M A 'G M A' JEI P G E PPG M GD @ F 'CA ' IF
J AC G ' IA A FE " "A G BA"GGOAJ MG ' EG IA R AA '
NF IA AJ P IA 'A AE AEG" 'N G E IA G ' AL
EG CAE F' J G JAMK IA G "J F' J E GP ' G'
E F P APF F G ' MG IA F" EIA P"FCAJ ' %G I
A"" E IF 'JE IA CFE "AE GM 9J 'B NI %"FCO 'AEE F' J
'CIOA I + 'BF IA IA"J F" AFJK F' J + DBF G '
FE G BA N A ' G I D FE EGG ' FE IA CG "J CG""AC F
E MM C A' MG CA G IG"J f 'G IA P"FCF J FCC E 'N
I D FE I 'N P G ' IA $G"BGG I JGG $IA E P
PGEAJ F IG F B G IA GM T FK GM $ "" BF J 'A
FE P GC"F DAJ F G $Ig PG E A A F CIAJ MG

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IA O 'NJGD FE I AF A'AJ I JAF I $IF %G I
A"" CG "J BA MG 'J N " K FE CA F '"K 'A A CG'
ADP"F AJ FE F PGEE B"A CG' 'NA'CK MG FE 'G"G'NA
F EAC A IF IA R AA' DAF' G DF K I D FE EGG' FE
IA CG "J BA EAPF F AJ M GD I E MA $IA P A" D 'F AE
GM IA J G CA A A BA 'N I AJ MG F J F' J -FJK
%G I A"" ' MAF GM F G EA MF A MG IA EA"M IFJ BAA'
'J CAJ G E A MG P"AF FE MG 'J '%G I A"" E
G ' ' Q AE F' J IF 'G MAF A D NI BA F' 'N
G CGDP"A A IA MG "' AEE GM IA P C A I E PF FDG
-FJK % CC"A NI FE EF J G BA AFJK M 'ACAEEF K G
CGDA MG F J I IA 'ACAEEF K A JA'CA
$IA DG F" MAA" 'N GM IA FNA FE 'G EA'E A $IA
$ JG E BG I ' 9 'N"F' J' F' J #CG "F' J IFJ DFJA IA
G "J MFD " F I' ECF' JF"G E EAPF F G'E F' J IA A
A A MA A'G D AE MG I CI P ACAJA' E CG "J 'G BA
M ' EIAJ M GD IA JGDAE C F' 'F"E GM IA 'G IA '
O 'NJGD VA IA A FE EGDA I 'N ' IA P AEA' P GL
CAAJ 'N EG P APGE A G E IF A A' IGEA DGE CF""G E '
E CI DF A E A A 'FB"A G ANF J * I 'J MMA A'CA
$IA IG'G GM IA CG ' K IA G'A E BHAC G' I CI
#CG EI CG'EC A'CAE A A EA'E A FE CGDP GD EAJ BK
EG DG'E G E F' G FNA PG' JACA'CK $IA R AA' E
PG" CF" P GEPAC E G "J BA 'AJ IG F'K G'A
CG ' A F " 'N FJ F' FNA IF A A M FE F""G AJ
G FOA P"FCA $IA A FE 'G 'F G'F" PF K G N F MK
'G XA'J G NF ' 'G MFD "K F"" F'CA G E PPG G

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A"" F' J' I E MA I E E F $F'NAJ ' 9>;F9 ' 9$ ' 9:'3$= '>?' ;DD@:;F9 '
IF ' IA EFDA EIF"" CGDA GM IA \ ' ?' ::=' 9: ' @@ $?? <8 9:' 9$ 9 C>'
F""AN 'N I E \ IF EIA O'G A I IA => : % ' ' ' -&H< @ M
" F I' IFJ IA CGDPF'K GM IA -FJK 3+

"""" # A'N IA'' I^' = G '' # CI' F' DF FNA' 'JA ' E CI'

516 XC C DE F'CAE G "J' BA' E DP"K' F' J EN FCA' ' G "J'
TF CI BA' F ' G'CA' / IA' CG'E DDF G'' GM' F'' A'G DG E' C DA'
F'J' F' P B" C' JAM F' ' CG'MAEE G'' GM' ' '' IA' MFCA' GM'
F""' DA'' $IA' D JA ' EA"M' D NI ' IF A' BAA'' NG '
G A ' F'J' IA' P F A' FJ " A K ' A A'' M' ' IFJ' BAA''
J ECG A AJ' D NI ' IF A' BAA'' CG'CAF"AJ' G ' CG'JG'AJ'
% ' G' MG""G ' P' IA' FEEFEE 'F G'' GM' IA ' I EBF'J' BK'
F'' GPA'' DF FNA' I' IA' DF'' IGD' F"' IA' G "J'
O'A ' BK' I E' DA' G' IF A' BAA'' IA' D JA A ' FE' A'L
A"K' ' G"A FB"A' '' E CI' IF'JE' IA' BFBK' ! 'CA'
G "J' BA' 'G' EFMA ' IF'' I E' MF IA ' F'J' G'A' D JA '
G "J' EGG'' BA' MG""G AJ' BK' F'G IA

* IA'' ' BACFDA' CA F '' IF ' EG' A(FG J 'F K' F' E AP'
FE' EA G E"K' CG' ADP"F AJ ' # ' `FDAE' TA"' "" Y EFKE ''
IF ' X' A A K' NGGJ' E BHAC ' IG' "G AJ' IA' R AA'' IFJ' EG A'
IAF E ' -G J' >A AE' IA' DGE ' FCCGDP" EIAJ' GM' IA '
M A'JE' F' DF'' GM' IA' G "J' IG' EF ' IF ' G "J' MG"L
"G ' FE' IA' M E ' G' IFE A'' G' IA ' MAA ' G' ADG'E F A'
$IA' R AA'' ACA AJ' I D' I' F'' FMMAC F G'' GM' E P EA'
#IA' FEE AJ' I D ' IF ' X' IA A' FE' 'G' E CI' I 'N' '' IA '
D 'J ' F'J' IA' CG "J' B ' FPG"GN EA' MG ' I E' ' E G'' F'J'
A A' M GD' IA' =G ' F ' I E' BAE ' EPAAJ ' BAMG A' %G I A"' "
IFJ' IAF J' IF ' IA' IFJ' JG'A

TA"K . A' I DEA"M' AJ' 'A(' F'J' IA' ACA AJ' GPPG 'A'
FEE E F'CA' M GD' F' Q F A ' G' I CI' GM' F"' G IA E' TF K'
F ' CG "J' "AFE ' FMMG J' G' BA' 'J MMA A' ' $IGDFE'
% EIGP ' IA ' FNA' ' '' 9 'N"F'J ' GM' IGD' A' EIF"' IAF '
FNF ' ' F'J' IG' FE' A A' F""K' IF'NAJ ' BA 'N' F ' I E'
DGDA' ' IA' A(PGE G ' GM' IA' MAA" 'NE' GM' IA' "AFJ 'N'
9 'N" EI' =F IG" CE ' G A' F' "A A ' G' TA" ""A ' I CI' IA'
JAE AJ' I D' G' EIG ' G' IA' R AA'

X FE APG AJ ' 9 'N"F 'J % EIGP EF J X IF => !,D
IA TFHAE K FE G DF K IA 9F " %G I A"" IA D 516
JA A GM IA I EBF 'J IG F P AEA' IFJ MA GM " E +$<>9
G ' F 'J FE F DF' M "" GM F"" E ' >) CG "J ECF'
BA" A A IF EIA G "J CGDD EG N GEE F' G A E NI
EG P AH J C F" A A K FK G IA ' A AE F'J G IA
'GB"A DF O IA O'A EIA EIG F M EIA DF AJ IF
DF' EIA G "J "GEA IA MF G GM 8GJ IA G ' AP L
F G' F'J IA IAF E GM F"" 9 'N"F 'J A"F 'J F'J
#CG "F 'J

$I E F DAJ # ` FDAE TA" ""A A A TF K # F E
BAE FJ EA \ F 'J A A' IA' EIA A' IA G ' "M "
FK IA M E G CG 'CAF" IA M "E \ A' A AJ I E EG AL
A N' E P AEA 'CA F 'J P"FCAJ IA "A A ' IA IF 'JE
#IA AFJ B EIA FE ' 'G CG 'J G' G P GM BK
#IA AM EAJ G BA" A A IF IA "A A IFJ BAA' A'
BK % EIGP #IA EF J FE F JA CA GM TF "F 'J E
X A 'J 'N G IA ACO GM IA 9F " GM %G I A"" F 'J EIA
EA' MG TF "F 'J F 'J F(AJ I D I > A GM CG EA
FEE AJ IA IF IA IFJ 'G I 'N G JG I > E
GP ' G' EIA F" AFJK O'A F 'J IA J J 'G CF A G P AEE
 M IA > A G"J TA" ""A IF IA IFJ JG'A DG A
IG'AE "K IF' EA"K F 'J IF M %G I A. IAF J GM
IA G "J O ' I D

X FE F EG A DF A EF J TAIJ""A X G EAA IF NGGJ
! 'CAEE ' G A ACO F 'J 'GBGJK G MG A F '
IA GM IA JF 'NA > A G 'CA DG A P G AE AJ G IA IF
IA "A A FE NA' 'A F 'J IF IGA A G A
CG' F 'AJ G '"K IA JAAPAE I X > A MG 'J EIA IFJ
'G D 'J G A' A PG' IA E BHAC $IA A FE 'GL
I 'N DG A G BA JG'A > A J J 'G IA' O'G IA
A(A' G I CI EIA IFJ CGDD AJ IA EA"M F 'J IA F 'J

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516 $ = $ 9 : < : C ; @

+ $<D9 $ I A 9F " GM -A' 'G(A'CG FNAJ BK IA P GD EAE A(G AJ BK 7 ""AN A FM A F MG ' NI E E "A'CA FCL CAP AJ IA R AA' E CIF""A'NA G 'FDA IA PA EG'E IPD IA FCC EAJ > A EPAC M AJ %G I A"" I G GM I E MG""G A E / # `FDAE %F"MG F' J MG MG A N'A E PF"FCA D ' G'E \ %FE F' IGEA DF FNA IFJ BAA' IA A(C EA MG IA A AF GM IA R AA' M GD 9G O G @ A"J `GI' JA %G JAF (`GEAPI 7 UU G IA MF G A E B G IA F' J @ F'C E G'A GM TF K # F E PA EG'F" EA F' E #IA AP" AJ IF IA -G JE G "J' F MA JFKE FEEADB"A ' 9J 'B NI $IA PA EG'E 'FDAJ ' I E "A A EIG "J IA' BA F AE AJ F' J FB JA IA F"/ F' J -A' 'G(I DEA"M X M I E "A E A G CGM'DGJ K D NI E F FE ' AJ G BA P AEA'

F" GM EGDA EG CG "J 'G BA F G JAJ $IA Q AE G' 'G FE ' IF MG D G "J BA BAE A'L CG ' A AJ NK"A > ' "K TF "F'J IA CIL B EIGP GM # 'J A E F' J EA A F" G IA E A A ' %G I A"" E PG A . '"AEE IAK CG'EA' AJ G E F' J BK I D IA IA"J IA E N'F AE G IA = FND .F BG'JE F' J CG "J P GJ CA IAD G IA G "J VA MAA" 'N FE IA CG "J 'G CIGGEA B MAA" IA CO" EI N G 'J G' I CI IA E GGJ " IAD \ MAA" 'N GG PA IFPE IF IA A FE 'G PA DF'A' EFMA K MG I D FE "G'N FE IA ADF 'AJ EG IF AM " G IA 'G MG D JFB"A DFEE GM IA D JJ"A C"FEEAE \ IA DFJA F' F ADP G NF ' IA 9F " GM T FK IG G'A E AJ "AFJA GM IA PGP "F PF K $IA R AA' EA' MG IA B G IA G #A G'

%G I A"" \ M -G J >A AE IG E IA F IG K MG IA E G K E G BA BA" A AJ \ FJD AJ I E G ' N "

B 'E E AJ X IF IF IA IFJ JG'A F'J CGDD AJ
FE 'G MG I E P F A ' A AP G'"K B I IA CG'L
EA' GM G IA E\ GM T FK I DEA"M I IA AE >A
IA AMG A I A I DEA"M G' T FKE IG'G F'J ' AJ
I D G E BEC BA F BG'J G E F'J BK I D '' I E JAMA'CA
$IA R AA'' FJJAJ IA 'A' AF AE G%G I A"" E B EIA
FE A"" FE IA 'E N'F""K MF "AJ T FK P GMAEEAJ I DEA"M
NA'A F""K F'(G E G J ECIF NA I E J AE G I E #G AL
A N' B BG'J GM F'K O 'J IA AM EAJ G E N'
$IA AM EF" DFK BA "F J G I E C AJ M IA MF
DAFE A GM F DF'E IG'AE K E IA E F'JF J GM I E
DA E G I E CG'EA' G IA D JA IA PA ADP G "K
JA' AJ IF IFJ BAA'' A A EPGOA'' GM '' I E P AEA'CA
E '" OA"K IF IA EIG "J IF A BAA''A' A"K N'G F'
GM F CG'EP FCK G I CI IA IG"A =G '' EGDA
JAN AA A A PF AE > E JAPF A M GD 9J 'B NI G'
IA DG ' 'N GM IA D JA 'E NNAE E IF IA FE F F A
IF EGDA JF O JAAJ FE ' A'JAJ I CI IA CG "J 'G
P A A' VA E G BA GBEA AJ IF %G I A"
I DEA"M '' I E CG' A EF G' I !F E BAMG A IA JAAJ
FE JG'A P GMAEEAJ G A(PAC 'G I 'N BA A M GD I D
IF'' 'A F" K/ F'J I E IFJ IA A BAA'' 'G ''A
' N A F'J IFJ IA FEEFEE 'F G'' BAA'' DA A"K PGL
" CF" IA G "J IF A IFJ 'G CI D G'' T FKE IA"P
G MG BAF F'CA VA G JAC" 'A BA IA M A'J GM IA
DF'' IG F IA DGDA' IA"J IA E A'N I GM #CG "F'J
'' I E IF'JE FE 'G MAFMA E AP MG F'K DF' T FKE
" MA FE '' JF'NA / F'J EAA 'N 'G I 'N IF IA CG "J
EAM ""K JG F'J 'G CF 'N G A(PGEA I DEA"M 'AAJ"AEE"K
IA JA A D 'AJ G CF K G IA AEG" G'' I CI IA IFJ
F" AFJK MG DAJ GM "AF 'N #CG "F'J %AMG A IA A' IA

& ! $ E>@ H' O Q $C (@@ F @ :' C9>;@=' 9:' C@$
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= P, '' IA"J'F'CG'E " F G'' I' IA'9F '"GM' TG G'' F'J'G IA E'
51 IG' A A' '' TG G' E'CG'M JA'CA'H F'J' FNF '' M' >A AE'
&H< @ G"J' IA' I' EGDA I 'N'GM' I E'O 'J' FE' JA A D 'AJ'
PG'' $IAK'EF '' 'G'DAF'E'GM'P A A' 'N' IA'DF FNA'
IG ' G"A'CA' $IA'R AA'' FE'EG' 'MF F AJ' IF ' '
FE' EA"AEE' G'FPPAF"' G'IA / F'J' IAK'CG "J' 'G 'CG'CAF"'
M GD' IADEA" AE' IF ' IA' ! 'CA E' " MA' FE' '' FE' N AF '
JF'NA 'FE' IA'R AA' E'IG'G ' $IAK'FN AAJ' IF 'FE'EGG''
FE' PGEE B"A'EIA'EIG "J' IA EA"M'BA'"F J' 'JA ' AE F ' 'F'J'
%G I A.'BA'EA UAJ' F'J'P ' G' JAF I' %G I A.' IG L
A A ' FE' GG'PG A M '" G'BA'GPA'"K'F FCOAJ''G ' G "J'
IA A'BA'F'CIF'CA' GM' AFCI 'N' I D' I G NI' F'CG 'GM'
H E CA' $IA' GFJ' G' I E' G A I G '"FK' I G NI' F'
EAAD 'N'CGDP" F'CA' I' I E' EIAE\ I G NI'PA H K'
AFCIA K'F'J'E CI'F E'FE'H'A''" OA' TG G''F'J' TF L
"F'J' IFJ' 'G' GBHAC G'' G' DAJJ"A' I' B ' 'G'E CI'FE'
E AJ' IA' 9F '" GM' T FK' -G J' >A AE' EFKE' IF '
IAK'F F'NAJ'FDG'N' IADEA" AE' IF ' X' TG G''EIG "J'
F F'FNA'F"" ' $IA A' G "J'BA' "J' G O' '' I CI' '
FE' 'G 'JAE FB"A ' IF ' T FK'EIG "J' FOA'F'PF ' X' >A'
G "J'BA' IA'M A 'FM A F JE' G' A '' F'J' FOA' IA'
8G A 'DA' ' >A AE' FE' 'G 'P AEA'' F' I E' CG'L
MA A'CA' F'J' CG "J' G'"K' IF A' IAF J' IF 'PFEEAJ' IA A'
F 'EACG'J' IF'J ' E' DG A' P GBFB"A' IF ' TG G''"F J'
BAMG A' T FK' IA'" 'A' GM' FC G'' I CI' IA' P GPGEAJ' G'
MG""G ' IF ' T FK' E DP"K' JAC" 'AJ' G' IF A' F'K I 'N'
G' JG' I' 'F'J' IF ' IA' "AM ' #CG "F'J' '' DA ' G'
H& A A' ' CF" D 'K' MAA"M' M GD' MFE A' 'N' PG'' I D' F'K'
EIF A' '' IA' A A' E' I CI' MG""G AJ ' >A' A' ' M E ' G'
9 'N"F'J 'PFEE 'N' I G NI'%A CO'G'' IA' "G I'GM' P "'
F'J' AFCI 'N' -G'JG''E ('JFKE'FM A ' $IA' AE 'FCCG ' '
GM' I E'MAA" 'NE' EG'MF 'FE' I E' ANF" J'MG ' IA'R AA''GM'#CG E

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P "

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'G KA O'G IF PFEEAJ BA AA' IAD >A PF J'F E
G DA IA JFK BAMG A KAE A JFK >A CFDA G EAA DA IA
EF J 'G G'"K G' FCCG ' GM IA M A'JEI P BA AA' I E'
#G A A N' F'J KG T FHAE K B G GM P F A ANF J
MG DKEA"M >A G"J DA IF IA IFJ I E'R AA' E' PA L
D EE G' G'NG G F"K F'J EAA T "F' F'J A' CA >A
FE'NG 'N I G NI @ F'CA IG NI IA G "J IF A'D CI
P AMA AJ @"F'JA E IFJ 'G IA -G =G ' AE'BAA' EG
D CI J E BAJ >A IFJ G"J I E'D E AEE IA EF J IF
IA EIAJ G F A" F'J EAA IA P"FCAE' I CI IA IFJ DA'L
G'AJ/ B ' 'PG ' GM MFC IA 9F "%G I A"" FE' I E'
A'ADK F'J B E' "MA FE' 'G EFMA/ IA 9F "%G I A""
IFJ MG IG EF'J DA' 'JA I E' CGDDF'J I IA
CFE "AE FDG'N G IA E GM 9J 'B NI F'J + 'BF I CI
CG' F 'AJ F"" IA N 'E F'J PG JA ' IA AF"D/ F'J MG
I DEA"M IA J J 'G DAF' G A ' "" IA R AA' IFJ
JG'A H E CA PG' IA 7 'N E' D JA A E' F'J IA CG'L
MAJA F AE >A CG "J' G IG'G FB"K ADF ' ' IA AF"D
I "A F'C DA EG E F'NA F'J EG IG B"A FE' F""G AJ G
PFEE 'P ' EIAJ M F'K G"A FB"A PF 'E A A FOA'
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$IA A A M GD I K G MG K PA EG'E' CG'CA 'AJ ' G
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>A G"J DA IF IA NA'A F" A(PAC F G'' FE IF FM A IA J G CA IA R AA'' DAF' G DF K %G I A""/ B MG I DEA"M IA CG "J 'G BA" A A F PA EG'' EG 'GB"K N M AJ FE I E E E A CG "J CG'EA' G EG MG " F'' F"" F'CA AEPAC F""K FM A F" IF IFJ PFEEAJ #IA FE F =F IG" C GG F'J F J G CA G'' E CI F N G 'J FE B F CAEEF G' GM CGIFB F G' \ F J G CA F G G FE IA "F KA E CF""AJ I CI J J 'G A'FB"A A IA PF AE G DF K FNF '' EG "G'N FE BG I A A " 'N FEOAJ M G "J BA PA/ D AJ BK I E A" N G' >A EF J G "J 'G / B IA] @ A'CI DBFEEFJG E CG'M JA' MG F"" I E IF M IA J G CA CF'' BA GB F 'AJ IA R AA'' DAF'E G DF K I D

* I "A IA G "J G MA JA FE EPAC "F 'N ' I E' FK P APF F G'E A A NG 'N MG F J F "FE MG %G I A"" E F"' $IA 3 I GM P FE M (AJ FE IA JFK G'' I CI IA FE G FOA I E P"FCA F IA BF G CA FE EA AJ G'' -A' 'G(AQ 'N I D G BA P AEA' F'J G P GJ CA I E A JA'CA/ F'J IA G JA GM =G 'C " BK I CI IAEA F F'NADA' E A A DFJA FE E N'AJ FBE J"K A'G NI BK %G I A"" I DEA"M ' CG' 'AC G' I > ' "K F'J NK"A $IA = G ' D NI IF A BAA'' A(PAC AJ G BA F

PF K G IA P GEAC G'/ B IA = G 'DFJA EA"MGE A' F G E"K 'A F"'F'J F IA EAADAJ FE M 'IA AKAE GM IA NG A 'DA' IA AF"C D 'F" FE IA FCC EA %K IA "A GM IA =G MG K JFKE EIG "J IF A BAA'F""G AJ G -A''G(' G CF"" I E 'AEEAE $IA JFK CIGEA'MG IA F"'AM I D B M M AA'/ F'J I "A I E 'IFPPK =G ' AEE '-G'JG' FE BAE AN 'N IA AF GM IA #PF' EI DBFEEFJG I IA JA' 'C F G'E GM TF K # F IA I EBF'J FE JF "K A(PAC 'N IF IA P GL CAAJ 'NE G "J BA B G NI G F'FB P A'J BK I E G ' D JA

TAF' DA F #A G'F'G IA JGC DA' FE P APF AJ G I CI IA R AA'F'J %G I A"" EA IA IF'JE FE J F ' BK -G J > ' "K \ G F "AFE FE ' I E IF'J 'N EA MG I IF IA R AA' BA 'N F JG F'J BA 'N ' "" 'N G ADF ' IG F P GL AC G ' EG (G B"AJ F CG ' K EIA IFJ IG NI JAE FB"A G FOA G IA EA"M F I EBF'J $IA A A F G E GBHAC G'E G F MG A N'A F'J IA AMG A MG I E DF'K AE EIA IFJ DFJA CIG CA GM `FDAE 9F " GM %G I A"" IGD EIA P GPGEAJ G DF K FE EGG' FE I E !EAPF F G' M GD XI E P A A'JAJ MA EIG "J BA CGDL P"A AJ BK MG D GM"F

$G I E A'NFNADA' IA 9F " FJJAJ F CG AEPG'J 'N P"AJNA IF BA 'N M AA F'J FB"A G DFOA P GD EA GM DF FNA ' AEPAC GM IA CG'EA' GM I E EF J P A A'JAJ EPG EA G IA J G CA IA J J P GD EA G' I E PF G FOA IA TFHAE K G BA I E "F M " MA > E B G IA '

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P IA BG'J F FK ' F CFEOA GNA IA I I E ADF 'L
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NG F'J I CI EIA IFJ A' AF AJ I D G B D
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C PF" 'AEE $IA R AA' DFJA I E FPPAF F'CA DPGEL
E B"A BK G JA 'N IF IA EIG "J BA F AE AJ G' F CIF NA
GM AFEG' IA M E DGDA' IF IA EIG AJ I DEA"M
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I DEA"M J E 'G A' A I IA " IA IFJ F EAJ MG CA
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DFJA AQ F""K DPGEE B"A MG I D G FEEADB"A I E M A'JE
G P APF A I E A JA'CA B"A IA AMG A G A G'CA DG A
G IA R AA' G BAN IF F "F A JFK D NI BA 'FDAJ
F'J IF P GPA DAF'E D NI BA FOA' G A'FB"A I D G
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P 'C PF""K CG'CA 'AJ >A FNF ' AQ AE AJ IF IA FCL
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FBG A F"" IF IAK EIG "J 'G BA F""G AJ G ADF ' '
IA T FHAE K E CGDPF'K X FE 'A A IAF J GM IA H E "K
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FNAJ IAD F'J IA E F'J J ECG FNAJ F" G IA E IF
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IA DF' 'A FPPG ' AJ IA FEE AJ IA TFHAE K EIA EIG "J =' !('
IF A 'H E F"

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IG NI E "" 'MA G ' 'MG CA G %G I A"" IFJ MG 'J DA'
G NG I I D G 9J 'B NI IG G "J DFOA F M NI
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 EAADAJ FE M EIA PGE A"K EIAJ G CG' 'CA IA
G "J IF %G I A"" E CF EA FE IA G ' %G I A""
FE G E F'J I E F MG IA D JA E G 'JAJ BK F'
F DK GM I E F'J IA A F 'A E %K "AF 'N IA P GEAC L
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I CI P B" C H E CA FE ' 'G FK CG'CA 'AJ/ F'J EIA
MG BFJA I D G EA IA DGE G J 'F K DAF'E GM EA"M P G
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PG' I D >A DAEEFNA PG "J IF A B G'A AMMAC $IA
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IA CIF NA G "J MF"" G IA N G 'J
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#'" A JA' "K MF'C AJ IF G "J PFEE MG F E MM C A' J E CIF NA GM F"" IF FE AQ AJ GM IA F' J IF IA F" G'CA G A IA DF A G "J BA IAF J GM 'G M IA E IA JF J A 'AF IA A FE F' GD 'G E E ""'AEE ' 9J 'B N7 \ F E ""'AEE DFJA DG A F M " BK "J G CAE IAF J FBG IA E AA E F ' NI #GDA GM IA A CIAE IG A A CG'CA 'AJ ' IA D JA IFJ G BA DFJA EFMA MG MAF IAK D NI A AF" GG D CI) 'A IG F'JA AJ FBG ' IA JF O'AEE P GC"F D 'N I DL EA"M N " K FE CF NI F' J EI P ' F P EG' X CF""AJ M GD IA "GF IEGDA'AEE GM IA P"FCA IA MG I A AE P ' 'G IA IG FE IG NI JF'NA G E FE O'GCOAJ G' IA IAFJ F' J B AJ G GM IA FK

-A' 'G(N AEE 'N IG I E G ' (ADG'E F'CAE G "J BA ACA AJ IFJ EA' F DAEEFNA I G NI # * "" FD + K G 9" UFBA I AQ AE 'N IA G BFCO I E PA G' MG JA"FK

9" UFBA I X" OA F' IG'G FB"A ! 'CAEE IFJ 'E F' "K A' G IA R AA' GM #CG E $IA DAEEA'NA GJA MG I E" MA F' J AFCIAJ %A CO I IA"A A G' IA ' NI GM IA I GM P " $IA F" FE G BA G' IA 'A(JFK/ F' J # * "" FD + K EA' G' BK G'A GM I E GMM CA E I F CIF NA G I D G JA" A IG JA"FK

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ECA'A GM I CI' IA FE IA 'AEE
> E CGD 'N IFJ BAA'' A(PAC AJ F'J P ACF G'E IFJ
BAA'' FOA'' G P A A' ' I D M GD NF ' 'N FJD F'CA) ''
F" NI 'N F IA NF A F'J A"" 'N IA PG A IF IA FE
IA BAF A GM F JAEPF CI' M GD IA R AA'' GM 9'N"F'J IA
FE 'MG DAJ IF IA R AA'' GM #CG E FE 'G KA F FOA
F'J CG "J 'G BA J E BAJ $IA JGG FE C"GEAJ '' I E
MFCA F'J IA F'JA AJ FBG IA DAFJG E "" BA AA''
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FDG'N IAD IF EGDA G'A FE CGDA M GD 9'N"F'J
X G E FK IA FEE UA F'J IA'' IA GMM CA F A'HP AJ G
PFEE '' IA FE I E BFCO I' G"A'CA IA 'G EA
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I D IF IA 9F " ' 'JA E F'J 'N IF IA IFJ "A A E MG
IA R AA'' FJ EAJ I D G NG F FK F'J A '' '' IA
A A' 'N/ X IA R AA'' FE EG DG"AE AJ F'J J EQ A AJ
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EE UA >A F N AJ I IA DF'' B G 'G EG GM
P PGEA $IA NF A FE I G '' BFCO F'J IA Q FJL
F'N"A F'J IA GPA'' EPFCA BA"G IA 'JG E A A MFE
M "" 'N I' F' C G J I G NI' I Q& IA A FE 'G PFEL
EFNA $ GGPA E A A N I 'N P IA EFJJ"AE F'J
BA" 'N G'' IA EFB AE/ IA @ A'CI' N F J A A DL
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('MG B 'N 'N 9'N"EI ""F 'E IA A/F'J P AEA' "K IA
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IG A A I G'N 'N G 'J I D F'J C E 'N I D $IAK
MA"" BFCO F#%G I A"" FPP GFCIAJ F' IA P AEA' AJ
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JAM F'CA D NI 'BA ' EA >A GGO 'F'J A' BFCO
' G IA !F"FCA B P AEA' "K A DAJ F'J EF J X IF
IA R AA' FE E "" E"AAP 'N/ G "J BA N A' G IA
IA' IA G O GM IA DG ' 'N FE G A N GGD
F I E DGDA' "AJ G 'J I E IG EA\ +F '"AK E IG EA
IFJ BAA' F'J G'CA PA IFPE "OA 7GF' %F BF K X F A
B AFJ M GD ? CIF J E GKF" IF'J] $IA 9F " EP F'N
PG' I E BFCO 'AJ G 'J F'J N"F'CAJ F IA 'JG E
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EFJG G CIAJ IA 9'N" EIDF' F'J IA GG "GGOAJ ' IA
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CG "J 'G BA J E BAJ 'GJJ 'N F MF A A"" G IA IA G
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#G A' IA D JA A GM TF K # F E I EBF'J G
I E F" MG"" G AJ BK I E #G A A N' E ED "AE F'J F A' JAJ
BK IA ?GKF" N F J/ F'J A F A CF""AJ PG' G BA" A A
IF IA R AA' IA F CI P"G A GM 9 GPA IA DF CI
' ' A""AC MG IA EI A JAE GM 9 GPAF' E F AEDA'
FE IA G'A PA EG' ' #CG "F'J IG IFJ 'G E EP C G' GM
I E N " F'J FE IA C D GM IA G ' N "A"AEE ' 'GL
CA'CA C D EIA FE MGG"AJ BK IA I CO " DBAJ
ECG 'J A" IGD EIAH FJ CIGEA' MG IA PF FDG J PAJ
BK IA G ' PFEE G'E I CI IFJ J FNNAJ IA JG ' G
IA "A A" GM F B A % IA DA' A A 'A A BG ' IG
CG "J IF A EG JACA AJ TF K # F F'J FE EIA
IA EA"M IG IFJ EFC M CAJ IA G ' 'GB"A 'F A G' IA
MG " F" F GM EA'E F" K F'J" E

2<;< >6:D@'&H<@ " 9:' Q 9' E>@;8:' >?' +<' * @:<C
1< :=' 9:' &HH: =7' >

E IA 9F " PFEEAJ I G NI IA G A NF A F "G'N "G J CIAA GEA M GD IA F DAJ D " JA @G IG EF'J MM F'E " 'AJ IA =F'G'NF A F'J G I 'J AJ >FCOB A E MG DAJ I E BGJK N F J FE IA GJA BA AA' IA F'OE $IA I NI CG GM H E CA \ EG CF""AJ ' CG AG E G'K \ FE IA"J F IA $G"BGG I IA A IA F" NI AJ F'J A' ' > E G ' A F 'A E GGO PGEEAEE G' GM IA JGG E X IF 'G'A D NI A' A B E CI FE A A DG A MG IA BAIGGM GM G'A E JA IF' IA G IA ' $IA A A A E ""EGDA J MM C " AE G BA G A CGDA F'J IA F' (A K G P A A' F P GEAC G M GD FPPAF 'N FE 'G IG AFEG' $IA CG CG "J 'G BA F" GNA IA PFCOAJ F'J IA A D NI BA JF'NA BG I M GD H JNAE F'J M GD H K $IA 9 " GM NK"A P AE JAJ FE IA AJ F K -G J ` E CA F'J EG MF IA A G "J BA 'G J MM C " K/ B IA A A MG FEEAEEG E G'A G DG A GM IGD D NI P G A 'L DF'FNAFB"A M IA CFEA A' MG F J \ -G J - 'JEFK >A' K %F"'F E IA =GDDA'JF G GM + DMA D" 'A F'J `FDAE TC8 "" IA ="A O GM IA 7AN E A) ' IA H K A A IA -G J GM B GF I =IF A"" A F " E EACG'J EG' F'J P AE DP A IA GM IA >G EA GM >FD " G' F'J IA 9F " GM =FEE " E _ IA G N 'F" GM * F" A #CG E X@ G' JA %G= M & $IAEA G "J BA A G %G I A. I G NI NGGJ F'J A " % IA 9F " GM =F I 'AEE IA =IF'L CA""G GM IA EE UA FE JG B M "/ -G J TF(A"" IFJ BAA' +FD"AK E EPAC F" M A'J F'J >AM AE FE A G I E D E AEE IF' G IA JF O DF' IGD IA MAF AJ FE IA A " NA' E f

' 2<;< ' >'6:D @'&H< @ " ' 9:' 3><=' >?' &<B<>$ 9 ' 3><=C' '>CC' ! : 8 H:@@' + $7 :@@' / :<< :C * H9$ ' $ =' '> = ' 9:' +$C :< >?' A><B:C' 4><=> ' >?' 3>D9 E$<' 6>D@ B;< ' >?' 3$ > ' !>8 :<E @@:' >?' 6$ 8 B;C :(B$;' $' +> B<$ ' $ =' ?8' F @E ' +>< > ' 9$=' B:: ' C;8 8> :=' B;

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PAF F'CA GM IA DF' ' FNA IA FE 'G D CI PFE
I K M IA BG'AE AF""K MG DAJ PF GM I D I CI
IF A BAA' ACA' "K J ECG A AJ ' I E E PPGEAJ GDB '
+A'DF O IA FE GM D JJ"A IA NI B GFJ I CO F'J
A DFK MF'CK B "" 'ACOAJ > E NAE AE A A E F""K
JAM F' F'J F DF' IG IFJ " AJ EG "J F " MA CG "J
'G IF A BAA' F' 'N ' PA EG'F" CG FNA/ B FE
IA CG FNA GM F' F' DF" I CI EAE I IA IAF GM
IA B"GGJ 'G IA CG""AC AJ CGG"'AEE GM F DF' IG FE
AF""K B F A

>A E GGJ F IA BF X"GGO 'N JG ' F'J EFJ" OA
' IA P AEA'CA GM IA DFCI 'A K GM H E CA I E 'EGL
"A'CA MF "AJ I D/ IA B A 'F A FE CG AJ F'J IA
"NF A(P AEE G' X IF'NJGN BAE JAEC BAJ I E BAF
'N) 'A GM I E F A'JF' E %"FCO) D E G' IG
IFJ BAA' I I D F 7 O G @ A"J X P" COAJ I D BK
IA E"AA A X @KA DK -G J IA I EPA AJ X IF
+A " E I E KA F A JG 'N VG MFCA EIF E IF KA
F A >F "J P KG MFCA MG 8GJ E EFOA F'J "GGO
B"K I"K VA D NI " O E F F' KA A A NF'NF'J G
IA JAFJ "FC F'J FA G I IAD IF A A JA KE
G 'EIF" NF E F" D DA

X >F J KG G'N A IA 9F " F'E A AJ X G "J
'G KA A A G JG IF A F' G NF M F 'CGDA
FE 'DFK F'J IF KA " O'G BA"K A

$IA ="A O GM IA' =G 'G BANF' G EPAFO
X * IA AFE TF IA 9F " GM -A''G(IA EF J X IFJ
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9$=' <:?;C:=' / :' >;@=' 9$E:' B:: ' 9:' ?><?: % ' ' ! ' &H< @'
F@$=' >' H@:$C:' 9:' %;:: ' 9:' C$ =' Y ' " '
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9 C' + C8$ ' 9:' >;@=' <$ 9:< H$ ' 8 C > Y) $ 'E>@' 'H' 5

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F CG GM ` E C F AE G BA IA"J ' IA $G"BGP I GM P ' '
9J 'B NI MG JG 'N H E CA PG' IA eF J 9F " F'J
IA 9 GM -A' 'G(FE AQ AJ G FPPAF F'J P G A
I E CIF NA

$IA 'J C DA' MG""G AJ IFJ BAA' J F ' I
F N G AEQ A CG' F'CA G EF A IA CG'EC A'CAE GM
E CI FDG'N IA H K FE A A FM F J GM A BF PA L
H K MG CIF NAJ IA 9F I IF 'N CGDL
D AJ IA D JA G' @AB F K < I/ F'J IF A A
FE IA FK ' I CI +FD"AK FE O ""AJ IA JAAJ FE
CA F '"K 'G JG'A " F' IG G G FM A D J' NI
) M I E P"AF " BA EAA' IF IA -G JE G' IA'PF'A
A A 'B FEIFDAJ G F F IADEA" AE IA' FM A JE
CF""AJ G FCCG ' MG IA CG'J C

%G I A" GM CG EA P"AFJAJ 'G N " K -A' 'G(
FE CF""AJ F'J J J 'G F'E A F'J IA CFEA G "J
IF A CG""FPEAJ FE A A K G'A P AEA' P GBFB"K JAE AJ
IA' F PA EG' FPPAF AJ IGEA PF IFJ 'G BAA' F L
F'NAJ ' IA P GN FDDA -A' 'G(FE FBEA' B
G'A GM I E EA F' E ?GBA = ' 'NIP D A' AJ ' G
IA F A'F 'E AFJ GM I D F'J E 'N FDG'N IA C G J
EF J

X T K -G JE FD CGDA IA A EA' BK DK DFE A IA
9F " GM -A' 'G(G JAC"F A IA CF EA GM I E FBEA'CA
I E JFK $IA CF EA GM I E FBEA'CA E IA EIG 'AEE GM
IA DA F'J IF IA E JA' JAJ f GM I E M A'JE F'J
EA F' E IG EIG "J IF A FCCGDPF' AJ I D G I E
IG'G F'J E A K GM I E " MA/ F'J IA IF 'N FEE E F'CA
GM 'G M A'JE B I DEA"M IFE CGDDF'JAJ DA G JAE A
F E MM C A' JFK FCCG J 'N G IA A NI GM IA CF EA
* IA A "'G NI IA DFK OAAP IA EFDA 'J M KG
-G JEI PE "" P GCAAJ F I E P AEA' P G AE IF

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=> P(' M IA PA EG 'E IG PFEE PG ' FEE UA F ' J ' Q AE ' GM
" A PA EG 'E IF ' EIF "" A ' A ' G ' PF 'A I E JFK JG
&H< @ U C"AF ' IA FCC EAJ PA EG ' GM IA D JA ' GM IA 7 'N '
IF ' ' EIF "" BA "M " A G ' F ' J ' 'G ' N 'G F ' ' BK AFEG ' '
IF ' PA EG ' ' E ' G G A"K O 'G ' ' G BA IA D JA A ' GM
IA 7 'N/ F ' J PG ' ' I E P G AE F G ' ' ' AQ A F 'A
JGC DA '
$ IA P G AE ' FE ' ' P GPA ' MG D ' $ IA P AC P F G ' '
GM IA F " IFJ BAA ' ' CG ' F K G P ACAJA ' ' / F ' J
= ' ' 'NIFD E JADF ' J ' ' IA AN "F ' CG EA GM I 'NE '
EIG "J IF A BAA ' ' E PPG AJ BK IA R AA ' E FJ GCF AE '
IG A A P AEA ' ' ' IA =G ' $ IAK EF A E "A ' '
IG A A ' %G I A "" E CG 'EA " P GJ CAJ -A ' ' G (E G L
N 'F " "A A ' ' I CI ' IA ` FJ NAJ IA R AA ' ' G "GEA '
'G DA ' ' P AEE 'N IA A 'Q K ' $ IA R AA ' ' IFJ B '
JG 'A IF ' IA P GEAC G ' JAE AJ ' F ' J IA IFJ 'G '
IA AMG A 'G NI ' G FEO MG ' DG A JA"FK ' $ IA A FE
'G P GEAC G ' ' 'G CFEA ' 'G 'AEEAE ' $ IA 'J C L
DA ' ' FE 'E PPG AJ ' $ IAK AQ AJ IA =G '
IA AMG A ' G FCCAP ' IA 9F " E P"AF ' F ' J P G 'G 'CA I D
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= ' ' 'NIFD ' EF J 'G ' DG A ' F ' J IA H K IJ A '
=GDPGEAJ FE IAK A A GM EGDA GM IA BAE ' B"GGJ ' '
#CG "F ' J ' IAK J J ' G ' " OA IA B E 'AEE ' $ IA A FE
' "G 'N AFEG ' 'N ' F ' J IA A A ' 'N FE C"GE 'N ' ' BAMG A
IAK AFPPAF AJ ' =F I 'AEE ' BAMG A IA A J C ' FE
N A ' ' ' AFJ F JAC"F F G ' ' ' F "" IA ' 'FDAE IF '
IA AFE 'G PA EG ' IFJ CGDA MG F J G E PPG ' IA
CIF NA ' X IAK CG "J B ' JA" A ' FCCG J 'N G IA '
O 'G "AJNA ' F ' J IA AMG A CG "J ' G ' BA FCC EAJ GM X "M "

' 9 * 9 : ' % ; : : C $=E>D$: C 9$ ' C @ : D : ' * 9 : ' @ J : ' ' $ ' $CC I : ' 9$ 9 '
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A G @G I DEA"M FE M J EJF 'N G F F I D => (
EA"M GM IA E B A M NA P APF AJ MG I D IA P ' I E
PA EG'F P G AE X IF IA + FK FE 'G A '
AEPAC IF IA D JA FECGDD AJ G' @AB F K"G I
F'J 'G 'G' IA < I F'J X EG IA FCQ F IF FK B"
CF ""G E"K JAMA'JAJ

* I IAEA Q F" M CF G'E FE A A FEI 'N IA
IF'JE GM IA F'EFC G' G I CI IAK A A DFJA
PF AE =F I 'AEE F'J IF"M IA H K A 'AJ F A J C
GM G 8 " K X $IA AE 'A IA Q AJ I D 'G
C"AF AJ I D B A A E "A'

#G F EA A' G C"GCO ' IA A A' 'N IA B E 'AEE FE
IFPP "K A D 'F AJ $IA R AA' IFJ OAP IA P GD EA
G 9 'N"F'J F'J @ F'CA/ F'J IA 9F " NF IA 'N P
I E CG MFNA FNF ' X M (AJ F CF A" FNF 'E IA $G"BGG I
JGG FE IA "AM \ X IA A ' IA GMMA AJ G M NI '
E 'N"A CGDBF I F'K NA' "ADF' 'JAMFDAJ IF
J E CIF NA I D I IA D JA

$IA =G G "J IF A FC AJ DG A EA"K IFJ IAK
"AM IA 'EG"A' MF CA 'P"FKAJ $IA 'J N'F G' GM
IA 9J 'B NI B NIA E FPPAF AJ ' X IA " BA"E I CI
CG A AJ IA F""E X $IA -G JE A A CIF NAJ X I
"M " DF'GA A 'N G CG A O'F A K X @F A A""
NA' "A >F K FE A' F G'A P"FCA X B A'L
NAF'CA G' TF K F'G IA F JA CF CF A AP AL
EA' AJ %G I A"" FE F M NI A'AJ IF A E G 'JAJ BK F
'N GM E G JE/ TF K # F FE F DA DF J C G 'AJ
M"FEI 'N M K G GM IA AKAE F'J "FEI 'N GMM IA IG 'JE
IF A A P E 'N IA "G A I F I ' EDF' E JG B"A
IG'N

T FK GM $ "" BF J 'A ' I E B G IA E P"FCA AP" AJ

' 2<;< ' >'6:D @ '&H< @ 5 " ' $ =' 9:' ' '"
' A><' ' > 9 :@@ ' < $@C::' 9:' '?><&H< @ ' TOP' ' 9:' " # '
H< :=' $DD>; ' ' ! $ ' $ =' &C<('
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G IA CIF""A'NA BK GMMA 'N G P G A %G I A""E N "
PG' I E BGJK I IA EG A A N'E GM @ F'CA F'J
9'N"F'J MG H JNAE GM IA CGDBF
* "" FD + K I DEA"M BG " 'N G A I ECG ''F'J
F'NA F AJ G'"K MG 9" UFBA I E PA D EE G' G F' C L
PF A T FK F'J M NI %G I A"" I DEA"M F'J IA''
IA R AA'' GM #CG E A' AJ M GD >G"K GGJ I G NI
IA C K IA GDA'' '' IA 8 FEE DF OA GEA F IA
E F""E FE EIA PFEEAJ F'J EC AFDAJ FM A IA X 8GJ EF A
KG 8 FCA M KA BA EFCO"AEE GM IA 7 'N E JAF I \ GM
IA 7 'N E JAF I f
)'A DG A 'E N'AJ B GD 'G E X B "" FE EA P
PG' IA TF OA = GEE X FD FEE AJ IA A E 'G'A
IF P GMAEEAE =I E F'J I E 9 F'NA IF CF' I
F'K P NI CG'EC A'CA PF IA 9F %G I A"" F'J I E
MA F"BA EIA H E "K P G A I D F'' FBGD 'FB"A FJ "L
A A /' F'J IF BK AFEG'' IA IFE D JA AJ IA I EBF'J
GM IA IA ' A'JE G DF K IGEA GB" NF G'' F'J P GL
D EA GM DF FNA IA IFJ "G'N BAMG A IA D JA FE
JG'A
9 A K IG FE A JA' IF IA A"F G'E BAL
AA'' IA R AA'' F'J %G I A"" A A BACGD 'N O'G ''
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& =' =>;B:@@ $==;@ :< :' 9$C $@@ 9 C @$ =' CD9$8
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4>=' H; ' C>8 :' : =' ; >' 9 C C><<> ?;@ 8:
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BC$ C-' 9 BB' ('DE' $ /' #$,/*

' ' ?' ' 9>;F9 ' ' 8 F9 'C $ =' 9' ' ;H> ' 9 C B>= ' $C @@ F@ ' $C
9:' %;:: ' 8 ' C>E:<: F C ?$E>;<' ' >B $ ' $ ' C; ' ' 9$E: Y @
>;@=' $ C :< ' $ =' D>8 8 ' 9:' ! ' &H< @ ' :ABC ' " 'O
C:L;:@ >' 4>=' ' 9$E:' C;@5D : ' >' : 7 +
D9$<F:' 9 8' 9 ' $ =' >;@=' H<>E: ' . ' ' &H< @ ' TOP

$IA I FE GGU 'N G P ACA BK P ACA M GD F I 'J AJ
I EPA 'N G 'N AE F 'J F"" IA F FE M "" GM
% IA NGF" FE 'AF ' A F 'J IAK IFJ NG 'A
GG MF G IF" G IAE F A $ G JFKE FM A IA F"
F ! F " FDA ' G E CI PFCOAJ FEEADB"K FE IA R AA'
CF""AJ BK IA 'FDA DA F 9J 'B NI -A' 'G(
AECFPAJ G 9 'N"F 'J $IA 9F "E GM TF 'F 'J 8"A 'CF '
FPP" AJ MG " CA 'EA X G JAPF IA AF"D MG F EAFEG'
$IA CIB EIGP GM # ' 'J A E F 'J MG G IA ! A"F AE
E (9F "E GM IGD %G I A. F 'J NK"A A A G E (
G IA 'GB"ADA' F 'J F MA CGDDG 'A E AP AEA' AJ IA
-AN E"F A GM #CG "F 'J $G B BA IA ! G AE F' E F'
C GM ?A" N G' FE PFEEAJ F 'J IA R AA' MG IA M E
DA MG DF""K ACGN' EAJ IA ?AMG DF G' $IA P CA
GM IA J G CA FE PF J G > ' "K F 'J IA 8G JG'
AE F AE A A AE G AJ I "A ' A ' X IA P NF G'
GM %G I A. FE CG 'M DAJ F 'J IA FEE UA F""G AJ MG
NGGJ $G E "A 'CA D 'G E G 'N AE FE A 'FC AJ
IF X IA AFE F G E 'NE IFJ BAA' EA " P G IA
E"F 'JA 'MFDK F 'J AP GFCI GM IA R AA' E > NI 'AEE
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JF 'AJ IF ' DA CGD 'N IA' F 'K E CI P"FCF J G
JAMFDF G' FE MG 'J IA PA EG ' M E EAA 'N IA EFDA
EIG "J FOA G JAE GK IF 'G M IA O'G "AJNA
'G CGPK EIG "J PFEE GM IA EFDA/ M E CI PA EG ' MF "AJ
IA A ' F 'J A IA IA 'N FE CGP AJ G P GCAAJAJ
G M IA O'G "AJNA FDG 'N IA PAGP"A IA M E EAA
F 'J M 'JA EIG "J BA P ' EIAJ ' IA EF' A DF' 'A FE IA
M E ' A' G F 'J PEA A M IA FE FPP AIA 'JAJ/ IA
JAMFDA E GM IA R AA' EIG "J BA P ' EIAJ I JAF I
F 'J F""G IA E I DP EG 'DA' F IA R AA' E P"AFL
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f H< @ G CA"AB F A IA GCCFE G' IA 9F " GM %G I A"" ' AJ
IA !AA E F' J % EIGPE G E P I I D F F P"FCA CF""AJ
'E" A E $F A ' $IA ! DF A F' J M A G IA ! A"F AE
FDG'N IGD FE -AE" A IA FM A F JE CA"AB F AJ
% EIGP GM %GEE IA 9F "E GM NK"A > ' "K # IA L
"F' J =FEE " E 9N" ' G' F' J EGDA G IA E A A P AEA'
$IA 'A A' G 'J M AA"K F' J F "A'N I %G I A""
GEA F' J P GJ CAJ F BG' J I CI IA GMMA AJ G IA
E N' F A FE IA P A A' JAJ BK IA R AA' E JAE A $IA
M E C"F EAE A"F AJ PA EG' F""K G I DEA"M
X $IA 'JA E N' AJ A A AQ AJ G EFK IF 'FEL
D CI FE IA FCC EF G' FNF 'E IA 9F " GM %G I A""
IFJ BAA' J EPGEAJ GM ' GPA' CG F' J FE F"" 'GB"ADA'
' IG'G F' J C AJ I IA #G A A N' A A E BHAC
G E EP C G' F' J CF" D ' AE IAK A A JA A D 'AJ G
AE E E CI E"F' JA E F' J M IA 9F " FE FNF ' FCC EAJ
IAK Gn"J E F' J BK I D F' J FOA PF I I D
#G MF IA A FE " "A J MM C " K/ DGE GM IA N AE E
A A DG A G "AEE ' A AE AJ ' E PP AEE 'N M A A'L
Q K ' G IA B E 'AEE GM 7 O G @ A"J $IA AL
DF ' 'N PF FN FPIE A A GM N F A DPG $IA X BG' J
CG ' ' AJ I E \
 =G'E JA 'N M IA IA DA P AEA' F' J IG IA
R AA' E TFHAE K IA #G A A N' FE 'G JAE A GM
F I EBF' J ' I CI EG" F K E F A IA CGD DG' AF" I GM
IA CG ' K G "J 'G PA D IA G CG' ' A EIG "J
IA TFHAE K BA DG AJ BK AEPAC GM I E MF IM "EA CAE
G FOA IA 9F " %G I A"" G IA I EBF' J IAK F' J
A A K G'A GM IAD PG' IA IG'G I F' J M JA" K
P GD EAJ G FJ F' CA F' J EA MG F J IA DF FNA I
IA CG 'EA" EF EMFC G' F' J FEE E F' CA FE EGG' FE
IA "F G "J F""G ' G BA JG'A/ F' J G AE AAD F' K

> : $C 9: < D>8 8 > : : 8 $ = :E @ @ :< 9> : (=:$ >;<:= > 9 =:<

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$G I E P AC G E JGC DA' M GD A" A G A' K 'GB"ADA' BAE JAE IA % EIGPE A A 'J CAJ G EA IA IF'JE/ EGDA " OA IA ! DF A > JA" BA F A AFCIA K G ADP IA R AA' ' G '/ EGDA FE FM A F JE P A A'JAJ ' MAF GM %G I A"" E X IFCO B A E IG E G 'JAJ IA IG EA/ EGDA PA IFPE IA DGE M GD DG F AFO'AEE F'J F' GM P AEA'CA GM D 'J 9N" ' G' X E" PPAJ F FK F'J EF AJ I E IG'G I E TG G' F'J TF "F'J A IA J J IA EFDA G IAK IFJ E MM C A' MG JA G I IG"J IA E N'FL AE $ IAK EF J NA'A F""K IF IAK G "J 'G GPPGEA IA DF FNA/ B IAK JAC" 'AJ G CGDD IADEA" AE G IABG'J

CI FE IA CA"AB F AJ 'E" A E E PPA GM F"" BFJ F'EFC G'E ' IF BFJ DA ' CGDDG' AE AAD IA DGE J EN FCAM " KA F M EAQ A" G IF IFJ P ACAJAJ F'J G' IA IG"A "AEE D ECI A G E IF' IA F" F IA $G"BGG I IA E PPA IA 'GB"A -G JE F'J G IA I NI PA EG'E J J B CGDP GD EA IA G 'CIF FC A E ' I CI IA A FE " "A "AM G 'H A ' IA > NI =G GM ` E CA IA MG ' F 'E GM EGC A K A A PG EG'AJ

 *@ :>< F $@ > = $C=:C <> := C;<E E:C > @ D>H :C 9:'C F $\ ;<:C :<: C;HH@ := B <:D>@@:D > $ = 9: =??:<: @ C C => > $F<: : *9: !D> D9 @ C ;C;$@@ H< := C $; 9: D D> $ C + ;<<$ C $8 : 9>;F9 + ;<<$ $C , F@$ = 4@: D 8 C 9>;F9 9:<: C > :E \ =: D: 9$ 9: $C ,= B;<F9 $ 9: 8 : $ = +>< > C 9> D$ B:H<>E:= = C D @ > > 9$E:C F := &'@ C ?>; = $8 > F 9: A<: D9 ! $: 1$H:<C B:CH:$JC D<:= B @ B 9: >8 CC > '>? + ;<<$ $ = 4@: D$ 8 9>;F9 F

 C >BE >;C@ $DD;<$: C D: 9 C $@C> D> $ C 9: $8 : >? +>< > ! : : 9:'@ C C ! $ E>@ H 511 3$ C> C := > $ = &'6>H >? 9: > = C F := B 9: 3><=C &H< @ Q 516 \ "

 *9: 3><=C 9$E: C;BCD< B:= $ B> = > B: > 9 : " C ?< : =C $@@ $D > C C$E F +>< > $ = 3:= F(> 9> 9>;F9 9: :@=:= > 9: 8$<< $F: : 9: : = <:?;C:= > B: 9 C C> F: :<$@ :<8C Y ! &H< @ 36 "

! $ %K'A IA'G'A'G' IA'G IA'J J'%G I A""'NF ''D CI'

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X'DFK'P"AFEA'KG'-G JEI P' G'"A'DA' 'JA E F'J' IF' ""' BA'KG '#G A A N' E' PF 'CG'CA ' 'N' IA'"F A' D JA'CGDD AJ'FDG'N' E/'MG'F"BA'IA'TFHAE K' FE' E"G ''F""'G '`FE' G B"A'F'J' IA AMG A'"GE'IF' MF G ' A' J J' BAF' ' G' IA'KA' 'A A IA"AEE' M' IA' TFHAE K' .'P E A'MG'IA' A A'NA'GM' IA'"F A'D JA' 'JF A' FEE A'KG '-G JEI P'EIA'EIF""' 'IA ABK'F""' IA'IAF E'GM'F""' IA'BAE' ''#CG "F'J'FNF ''@ IA' M' A' 'JA E GGJ' IF'IA'TFHAE K' G "J' FEE E' E'F'J' MF G ' E' A'EIG "J' 'G'BA'"G'N' ''A A'N 'N' GM' I E' D JA' $IA'R AA''CF EAJ' F MK' ''!F "FDA'' IA

C"AF'E 'N GM %G I A"" # IA ' A'JE G FOA IA ! 'CA
G GM IA 9F " GM TF E IF'JE F'J P I D ' G %G I
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CF""AJ IA DGE PF GM IA 'GB"ADA' G E PPA MG G
JAE A GM IAD IA P GD EA ' 'N F'J CG'EA' MG
IA R AA' E DF FNA I CI IA "" GB F '/ MG EIA IFE
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G ' CG ' K MG I D F'J EIF"" NG I I D G IA
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8GJ JA" A IAD M GD IA A " X
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CGDP" C K GM IA R AA' GM #CG E ' IA D JA EA"M
VA IA AF DA' GM IA GMM CA IA F" F'J IA
NA'A F" 'A E I CI CFDA ' JFK FM A JFK M GD #CG L
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TF K # F FE CGDP GD E 'N IA EA"M #IA EPGOA G
IA #PF' EI DBFEEFJG I 'NA' 'A J E AEE GM IA
CG' ADP G E A FE G' GM IA JAE A IF IA F" D NI
BA PGE PG'AJ $IA #PF' EI DBFEEFJG ' I E FCCG '
G ! I " P EAADAJ AQ F""K ECF'JF" UAJ X $IA 9F " IA
EF J IFJ BAA' FCQ AJ BK IA R AA' GM #CG E G '
G JA -A' 'G(FE 'G F""G AJ G BA P AEA' / IA =G
FE E G 'JAJ BK F DAJ DA' ' IA 9F " E PFK/ F'J
IG NI F DFHG K GM IA H JNAE 'JA IA R AA' E 'L
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516
P "

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P " #CG E$ GEAA IA$CG'E C G'$ ICI$9 GPA$ FE$P"FC 'N$
PG'$ IA $ CG'J C $ $PFPA GM'G AE$ '$=AC"E$ IF'J$
JF AJ$ IA$ FM IGM P "$CG' F 'E$ IA$E BE F'CA$GM$ I E$
IG NI E$FBG $ $ X$$IA$A'Q K$ ' G$ IA$D JA $CG "J$
'G $F'J$EIG "J$'G IAE M"AJ$ IAR AA'GM#CG E$EIG "J$
BA$ DFJA$ G$ 'JA E F'J$ IF $DF''A GMB E$F'J$ L
DG E$ A A$ EP AFJ$ I G NI$ F"&$ CG ' AE$ FBG $ IA $
NF IA AJFE IAK$ A ABK 'J MMA A'$ DA'$ PG'$BAIG"JL
'N$ IA$P GCAAJ 'NE$ '$#CG "F'J$E 'CA$ IA$7 'N E$JAF I$
M$ $ FE$ A$ IF EIA IG NI GMDF K 'N$%G I A"$
EG$ DG'E G EF' G FNA$D E$ BA$ P A A' AJ $ -G J$
8 AKFE F$PA EG'$ 'CG''AC AJ$ I$#CG CI$ P FC CAE$
FE$ CIGEA'$ GNGJG ' $ G$ >G"K GGJ$F'J$ AFEG'$ I$
IA $ >A$ FE$ 'E C AJ$ G$ A"&$ IA$R AA'$GM$#CG E$ IF $
9"UFBA I$ FE$E DP"K$EIGCOAJ$F $ IA$ APG E$ I CI$ A A$
B G NI $ G$IA $ X$ G$J ECG A K$IFJ$ BAA'$ DFJAGM IA$
DF"AMFC G E $ X$# CI$ FE$ A A$ DGE $ G CIAJ$ I$ IA$
C DA$ A ADGEMF G AJ$ A F 'AJ$ '$C AJ $F'J$BA'A $
M AJ$ I$NM E$F'J$ A F JE$ IAMF IA $F'J$G IA E$
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A A'NA$ A A$MG CAJ$ BK$MAF $ G$ A A$M GD$ IA$=G $
F'J$EGDA$GM$ IAD$JAP AJ$GM$ IA $GMM CAE $ X$>A $TFL
HAE K$ FE$N AF "K$PA P"A(AJ$ IF $ GJG 'FCFEAGME CI$
DGDA' $ IA IA $ G$BA"A A$'G I 'NGM IF EIAIAF J$
X$G $N 'N$C AJ $B $ '$EGDA$PF $ G$A' A $ ' G$JG B L
M "'AEE$ GM$ IA$R AA'E$ ' AN K$ ICI$ GM$ F"&$ G IA $
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L;:$ =:D@$<$$: '$ ' @>C$ =:8C >$ ' $ C:$ @:$ 9$Bg$$ ><=: $=>$ H><$
L; C :<> $E> $<$: $:@@>H<:D : =>@:C$ 8$:<$$ L;:$ >$E >$L; : $ $D;C$C:$
L;:$ >$ 9$Bg$$ @B:< $=$: $:@$; D >$ 9B@$C:$: $:@@>$C:Fj $8 :$ D:< ?\
H><L;:$:@ 6> =:$'> 9 :@@ : $$D> \ D$ % $. $ $ $&H< @$ $
C F>$ 8 ;D9$$F: :$ $:@ =:$ 3: >7$ >$ $ '
H>=g$$E: <$C >$D> $C:C$XDB$@@>

#CG E FE IA E E A F' J O 'E GDF' $IA KG 'N NA' "A 'F' IF FE MG ""K D JA AJ FE BG 'F E BHAC GM I e6 IA AF"D F J '" OA JAN AA I^ O 'EDF' $IA G "J PG ' AJ I G'A CG'EA' F %G I A. FE IA FEEFEE ' X > E DF" CA G IA 7 'N FE 'G G G E"K JAFJ"K $IA 7 'N '' I E" MA MAF AJ I E JAF I BK %G I A. F' J EG NI G IF A AECFPAJ G GM IA AF"D VA IA CFE "AE GM 9J 'B NI F' J -A I IFJ BAA' E 'CA N A' '' CIF NA G I E DF' X F' J NA'A F"" K F"" C AJ F' J AP F G' CG' AKAJ G'"K G I D F' J I E IF A A DGE CGDDG'"K CIF NAJ I IA 7 'N E JAF I X =G' ADP G F '"AFE 'AN"AC IFJ BAA' EAJ '' IA B F GM IA 7 'N E BGJK > E MF IA I E O ' F' J I E M A'JE A A MG CAJ G P AL EA A IADEA" AE BK FBEA'CA/ F' J I "A -A' 'G(FE MG B JJA' G FPPAF F IA F I DG A IF' E (GM I E EA F' E X IA PA EG' FCC EAJ FE F A' JAJ I N AF CGDPF' AE GM EG"J A E

E ' IA M E "A A IA' M E EIA IAF J GM IA D JA FE ' IA JAEPF CI GM 7 "" N A FE ' IA 'AML MAC F AMMG G P A A' TF K # F M GD CGDD 'N IA EA"M G IA DGCOA K GM H E CA/ EG FNF '' I E 'L A' JAJ DAEEFNA 9" UFBA I FE M "M "" 'N IGEA J AE GM O 'J F' J EA M A' JEI P I CI TF K # F E FJ GCF AE CGDP"F 'AJ FM A F JE IF EIA IFJ BAA' JAP AJ GM/ B BAMG A 8 AK CG "J E F G' I E D EE G' M AEI 'A E F AJ I CI DFJA I E F' J A A K G IA AMMG ' ' IA R AA' GM #CG E ' A AE E 'F F" 'N

G IE F' J 'N 'E" A E E PPA 'A IA IA 9F " 'G IA R AA' CG "J MAA" FEE AJ IF IA DF FNA F F' NADA' E G "J P GN AEE EF EMFC G "K $IAK CG "J 'G CG'CAF" M GD IADEA" AE IF FE ANF JAJ BK A A K

' C <;D > C) -G J 4<: 'C: ' ' TOP(' 6 :D @C B$ = Y ' 6
H>C ' >' 9 :' %; : : ' >? !D> C '&H< @ ' 5 '

=> P(' G'A " ' A'EA AP N'F'CA %G I A"" 'FE A A' E'FM A L
516 F JE P G AJ 'PGEEAEEAJ 'G 'F E 'N"A M A'J FDG'N IA
&H< @ -G JE 'F'J 'G ' G BA I E M A'J F 'E CI F DA FE G BA
I E 'JAFJ"K A'ADK TG G''F'J' TF "F'J FMMAC AJ G BA
'G '"" J EPGEAJ G F JE I D/B ' IA ''ANF A F JA
FE DG A IF''E EP C G E 'F'J IA JA"FK A A''GM IA MA '
AAOE I CI G "J' A"FPEA BAMG A IA + G CA =G '
CG "J' A"AFEA %G I A"" M GD' I E MA' D NI ' N A' F''
GPPG ' K MG ' CGDDG G''F ' IGDA 'G ' MG 'EGDA ' A L
MA A'CA M GD' 9" UFBA I ' I CI' D NI 'AQ F""K BA MF F" G
IA ' EIAE' G ' FE IA' 9F "E'PGE G'' I' IA' BF'J'
GM JAEPA FJGAE' IF ' IA' IFJ 'CG""AC AJ' FBG ' I D' F'K' DG A'
AFEE 'N' >A' IFJ' 'G' DG'AH ' G' PFK' IAD' I ' $ G'
JFKE' FM A ' IA' EAPF F G''GM IA' !F " FDA'' IAK' D L
' AJ' '' IA' IF"" F ' >G"K)GJ ' %G I A"" F A FH AJ' G'
EA UA' G'A' GM IA' 'N"AFJA E 'B ' I E' CGD FJAE' 'E F' "K'
' A MA AJ ' F'J' IA' 9F "' FM A ' F' EF FNA' F" A CF G''
CG "J' G'"K' Q A ' IAD' BK' P GD EAE ' I CI' IA' CG "J' 'G '
IGPA' G' AJAAD ' A(CAP ' BK' EGDA' EPAAJK' DAFE A' I CI'
G "J' N A' I D' IA' DDAJ F A' CG' G" GM IA' O 'NJGD
)'' IA' 33'J' GM P "' IA' JFK' I CI' MG""G AJ' I E'
CGDDG G''TF K' # F ' A'' G' # " 'N' P GMAEEAJ"K'
G' E ' IA 'CI "J' $IA' NA'A F" E EP C G''' FE' IF ' EIA'
' A'JAJ ' M' PGEE B"A' G' NA ' IA' ! 'CA' ' G' IA ' G ''
IF'JE 'F'J' A IA 'CF K' I D' BFCO' I' IA ' G' 9J 'B NI '
G ' P"FCA' BG I ' IA' CI "J' F'J' # " 'N' =FE "A' '' %G I A"" E'
OAAP 'N' M' I E' FE' IA ' JAE N'' ' FE' JAMAF AJ' BK' IA'
P JA'CA' GM IA' 9F "' GM' TF ' IG '' FJD 'N' IA'
R AA'' I '' IA' NF AE ' F""G AJ' B ' G' "FJ AE' G' FCL
CGDPF'K' IA ' % ' IA A' FE' F' EACG'J' PK PQEA' '' IA'
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' *9:C:'@: :<C' :<:'?>; =' ' 9:' H<:D:= F'E>@;8:' '$DD:H' 9:8'$C'
D:@:B<$:='D$CJ:' 9' 9:' > 9:<C' >' F: ; :'B:D$;C: $C' @@'B:'C:: ' 9:
9 D9' <:?:<: D:' $C' 8$=:' ' 9:' :<:' C;B8 :=' >' 9:' CD<; ' >?

* / , ' % " , , . ' 1' ! 6 * !' * ' * / , ' , & , 3 ' ' * / , 33 ',

' ' ?' IA' DA' F ' J' P"FCA' ' AD ' DA' G'KG ' B G IA ' TOP(
F ' J' G'KG ' ' "" MG""G ' I D ' F ' J' "" MF " ' ' 'G I ' N' P "
' ' DK' PF ' >A' M ' JE' DF ' K' J MM C " AE ' ' I ' O' IA'
JGAE' FJ A EA'KG ' IA AGM' F ' J' IF ' IA' JAE AE'MG ' IA'
IF ' J" ' N'GM' I DEA"M ' E'MG ' IA' IF ' J" ' N GM' DKEA"M ' '
IAF J' ' G ' CA' A"" JA EAJ ' TA I ' OE' IF ' KG ' EA CAE'
F ' J' IA' "G ' N'FD K ' IF ' N' IA' NGGJ' "" GM' IA' - G JE '
JG' A"" JAEA A'F'PF JG ' ' M'FBG A' IA' J K'GM'F'E BHAC '
KG ' FJ F ' CA'KG EA"M ' ' G ' G'CG ' E F ' ' DA ' B ' G'FEE A'
KG EA"M'GM'E CI ' P"FCA' ' AF ' ' G' DA ' IF ' G IA ' FJDGL
' G ' E'G ' MG A N ' ' PA E FE G ' E' DFK' ' G ' "A ' DA'M GD'CG ' L
EA ' ' N' G' IF ' IF ' KG ' IGPA'KG ' EA CA'EIF"" DFOA'
KG ' G ' A'JFK' G'F F ' ' / F ' J' G'BA'EIG ' G'DFOA'KG EA"M'
E A'G IA' - G JE'F ' J'M AA' G'DF K/ F ' J' IF ' KG ' F A'
CG ' E F ' AJ'MG ' KG ' E A K ' F ' J' G'BA'FB"A' G'EA A'DA'
MF IM "" K ' G' EA'F ' ' I DB"A' AQ AE ' HG ' AJ' G'F ' ' DPG L
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E FJA' IAD' IA' DGE ' KG ' CF ' ' IF ' KG ' F A' CG ' E F ' AJ'
G'DFOA' P E ' FNF ' E ' KG ' A ' AD AE ' VG ' EIF"" EFK'
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$@ 8 >C ' 9 :' : <:' , F@ C9' H : : <$F : ' ?$E> ; <$B@ :' >' 9 :' % ; : : ' B ' $' 6$ 9>\
$ =' : CH : D $@@ ' >' 9>C :' $ 8 > F' 9 :' @ D' ?>< 8 $ ' >? 9 :' ! H$ C9' & 8 B$C\
H : : <C' 9>' : <:' 8 >C ' : <: C : =' ' C$=><' 9>' 9 ; << : =' ?<> 8' 9 :' CH> ' >'
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9 ' 9 : 8 ' $= 8 : =' >' B :' = CH ; $B@ ' $C <>H9 :' ?><' 9 D9' 9 : H<: H$<: =' 9 :'
' 9 :' 9$ = < F'>?' 9 :' %; : : ' >?' $ ' ' $ =' @$C @ ' B : D$; C : ' 9 : <:' C' >'
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DA

D JE GBEC K ' EGDA GM IA F"" E G'E IA J M GM I E "A A E NA'A F""K P"F ' IA' ' A P A AJ BK IF FC F""K GCC AJ - AE ' A MA A'CA '#CG "F'J G IA FJDG' G' G PA E FE G' GM 9'N"F'J G @ F'CA EIG "J JFEI IA C P M GD IA '"PE IA "G A E IFJ"F J F P"F' G I CI IA 9F " GM > ' "K FE F CG'EA' 'N PF K IF %G I A"" EIG "J CF K GMM IA R AA' BK EAAD 'N MG CA #IA FE G A ' G 9J 'B NI G' IA 3; I/ EIA CG "J BA ' A CAP AJ G' IA FK F'J IA G"A'CA I CI IFJ BAA' GMMA AJ G IA G "J IA' DFOA IA DF FNA F 'ACAEE K/ I "A %G I A"" CG "J P"AFJ I E G ' JF'NA F'J IA NA'A F" J MM C " AE GM I E PGE G' FE F'A(C EA MG I E P AC P F'CK

FE F "J ECIADA\ 'G EG "J PA IFPE '#CG L "F'J FE G "J IF A EAADAJ ' F'K G IA CG ' K B E "" M "" GM J MM C " K - G J > ' "K G' DF A CG'E L JA F G' FE FNF 'E F ADP 'N / IA R AA' CG "J 'G F A" IG F'E G'N AECG F'J IA AECG IG NI D NI BA 'JA > ' "K E G ' CGDDF'J G "J AE E '"AEE FOA' ' G IA EAC A

MA IG E FM A IA "FE "A A IA R AA' G A FNF ' \

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X G"J I D IA EIG "J IF A AEG" AJ I KG PG' F"" IF F'J IF IA EIG "J F G J M IA CG "J IGEA

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NF ' ' F'J' E "" DG A' JAAP"K' ' EAADE' IF ' > ' "K E' D 'J' D ENF A' I D' '' F' I J' 'G A' IA' R AA'' EF J' IF ' IA' IFJ' A 'AJ' F' EACG'J' DA' F'J' X P AFC IAJ' ' G' IA ' IF ' ' FE' F' MGG" EI' A' A P EA ' F'J' IF ' I' IA ' IG'G ' EIA' CG "J' 'A A ' DF K' ""G I A"" ' EAA 'N' IF ' IA' FE' DF AJ' F" AFJK' / I E' G '' PAGP"A' G "J' 'G ' F""G ' IA ' G' BA' CF AJ' GMM' F'J' IA' -G JE' G "J' 'EFK' IA ' P GD EAE '

X' ' G"J' I D '' EIA' EF J' X' IF ' EAA 'N' ' FE' CGDA' EG' MF ' M' KG ' J J' 'G ' IJ F ' KG EA"M' GM' KG EA"M' 'G' PA E FE G'' 'G ' JAF I' EA"M' EIG "J' DFOA' DA' MF "' GM' DK P GD EA ' G "J' ' A A' JAFJ ' MG ' ' EAA' F"" NGAE' "" + EPF CI' IA' F'E A ' IF ' ' MF "' 'G ' F'J' P ' 'G' E ' '' KG ' B G IA ' MG ' I E' A' A P EA ' MG ' IA' IFE' G"J' ' f $I E' "FE ' 'G A' D E ' IF A' BAA'' A'' M GD' # L " 'N' F ' D J' NI ' BA AA'' IA' 3: J' F'J' 3; I' GM' P "

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$IE'FEE AJ'GM'E PPG'MGD'G'A'EJA'G'IA'GIA' IA'9F"E'GM'TF'TG G''IG"'NK"A'F'J'GIAE' FEEADB"AJ'F'#""'N'F'MA'JFKE'FMA'TFK'#F' FE'CF AJ'GMM'$IAK'AA'JAAD'AJ'F'F""'IFUFJE' G'FOA'IA'G'GM'%GI A""E'IF'JE'F'J'M'FMA'IA' "AA'ICI'IAK'IFJ'FJJ AEEAJ'G'IA'EIA'PAEEAJ' ''ADF''N'I'ID'IAK'DFJA'P'IA'D'JE'G' JAPGEA'IA'F'J'CG''IA''MF''!'CA'7OF"JK' F'MA'J'GM'9'N"F'J''J CAJ'IAD'I'EGDA'JMMC"K' G'CG'E"'9"UFBAI'G'CA'DGA

X'$IA'CG"J'EFNA'GM'DK'-GJ'GM'T FK'#'?GBA' TA""A'GA'G'#'CIG"FE'$IGNDG G''X"GE' KG'EGAAN''DF'K'IAF K''IE'AF"D/IAK'DFK' BA'ACGAAJ'M'EIA'""BA'AF'AE''IE'DGE'IG'AE' CF EA'F'J''G EI'F'NAFA'"GA'IF''AA'FE'BA

' + H'G'=AC"'TFK'5\ >IJ+*'9BB

AA' IA CG ' AE IF BG I ! G AE F' F'J !FP E DFK 4 G'A FK

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9" UFBA I E 'CA IA D EFJKA' A F IA DA GM IA +F '"AK DF FNA IFJ AEG" AJ G IF A 'G DG A G JG I #CG CI 'E NA' E ' A MA A'CA BA AA'' E BHAC F'J #G A A N'' IFJ 'A A BAA'' G IA G '' FE A #IA IFJ K A"JAJ I B IF"M F' IAF G IA NA'CK GM =AC "' F'J EIA IFJ NG'A MF A'G NI G CGDD IA EA"M IG IF 'N ' A'JAJ A A'' IA'' G NG MF IA $IA AE "' IFJ BAA''MF " A F"DGE J EIG'G F'J IA F"A'F G''GM F PG A M "PF K IG """ IF DA IFJ BAA'' IA JA G AJ FJIA A' E #IA FE FNF '' CG'M G' AJ I F E D "F J MM C " K F'J F F DA I CI FE A(ADA"K C CF"' $IA A NI KAF E F IA A'J GM I CI B IA A DE GM IA PAFCA GM =FDB FK =F"F E FE G BA AE G AJ G 9'N"F'J IFJ H E A(P AJ #IA IFJ EA'' '' IA JADF'J F'J IA @ A'CI 8G A 'DA'' IFJ AP" AJ IF IA PAFCA GM =FDB FK IFJ BAA'' G"F AJ BK 9'N"F'J '' IA GCC PF G''GM >F A F'J IF IAK A A 'G "G'NA BG 'J BK E P G E G'E) '' IA PF 'GM 9'N"F'J 'IFJ BAA'' AHG 'AJ IF IA PAFCA IFJ BAA'' M E B GOA'' BK @ F'CA '' IA E PF G''GM IA 9'N" EI F DE BK TF K # F F'J IA +F PI '' F'J BK IA 'G G G E P APF F

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'$I E' MF ' IA' EF J' ' ' """ DFIA' KG ' IG'G ' P K' @ F'CA' IFE'GML MA AJ' G'A' A ' '' BG'J' I' IA' 'GL B " K'GM' IA' AF"D 'F'J' G'N A'J A E' PA'E G'E' G' 'GB"ADA''F'J'NA' "ADA' ' ICI' EGDA' J J' " OA' A""' GMH' B

IA' IG'AE ' EG ' IF A'CG'C" JAJ' F'J' B G NI ' IA' AE ' G' IA' EFDA' AMMAC ' F'J' '" JG' 'G I 'N' IF ' """ GMMA'J' KG '#G A A N'' IG ' IA' MF " ' BA' '' IA ' T FHAE K' F'J' 'FPPAF E' BG I' !FP E 'F'J' ! G AE F' 'EA A' GNA IA ' I' F'' AF 'AE 'FMMAC G'' MG ' IA' AF" GM IA 'CG ' K \ 5 + ' . ' ' ! ' T FK' 6' '

G'E I CI IFJ BAA' DFJA G JA I G'A 9" UFBA I ' IA MF G # G IA J EP A FE IF'N 'N $IA MAA" 'N BA AA' IA G CG ' AE FE N G 'N EG A F'J JF'L NA G E F'J ' IA D JE GM 9" UFBA I FE A'CG 'L A AJ BK IA J "ADDF GM IF 'N G A'CB FNA F M AEI A G" GM IA #CG E G GM EAA 'N IA A' A AE " E GM =AC " E PG" CK 'JG'A F'J #CG "F'J G'CA DG A ' PA L DF'A' F"" F'CA I 9'N"F'J E DGE JF'NA G E 'A NIL BG * IF FE EIA G JGY E E F" EIA F ADP AJ G A(CF A IA EA"M BK FDB N AE F'J JA"FKE -G J 8 AK E 'E C G'E A A G GM JF A BAMG A IA IFJ E F AJ #IA J J 'G A'A IAD/ 8 AK ADF 'AJ F IA =G F'J EIA CGDD ' CF AJ I IA -G JE I G NI IA 9F " GM %AJMG J IG IFJ A 'AJ G %A CO

$IA AEC A GM IA R AA' EIA EF J IA P GEAC G' GM IA D JA A E GM+F '"AK F'J IA P G AC G' GM IA KG 'N ! 'CA A A GBHAC E F"" GM I CI A A DGE JAE FB"A/ EIA FE P"AFEAJ G M 'J IA G ' M A'JEI P P AMA AJ G IF GM @ F'CA/ B EIA JAE AJ G BA 'MG DAJ X IG EIA D NI I IG'G G IA G "J F'J EF EMFC G' G IA CG'EC A'CA X ' A DAJJ"A' G EAC A IGEA GBHAC E #IA CG "J 'G EAA IG CG "J BA EF J IF IA R AA' GM #CG E FE MG C B"K JA F 'AJ BK %G I A"" EAA 'N IF X IA R AA' GM #CG E IG "K IFJ FJ A EAJ I D ' F CG' F K DF' 'A /' F'J FNF ' IG A A D CI IA P ' EIDA' GM IA D JA A E FE G BA EIAJ MG M %G I A"" DF AJ IA R AA' \ X BA 'N BK CGDDG' MFDA IA P 'C PF" F IG GM IA D JA \ EIA CG "J 'G A"" IG CG "J BA B G NI FBG X IG GPA' EIG GM IGE " K $IA -G JE IA AMG A D E A"" IA DG A PF C "F "K IG IAK DAF' G P GCAAJ F'J EIA IGPAJ IA ' A' G'E D NI BA E CI FE X EIA CG "J F"" G GM ' IG'G F'J CG'EC A'CA E G JAPGE 'N

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9" UFBA I FE DG A IF' E F""K A' NDF CF" E 'CA IA AF GBHAC FE G'A I CI EIA J E 'G F G %G I EIA F'J IA @ A'CI JAE AJ G NA IA PA EG' GM IA ! 'CA ' G IA IF'JE 'JA P A A'CA GM P GL J 'N MG I E EFMA K F'J I CIA A M E FPP GFCIAJ IA E BHAC D NI I G IA P UA ' G IA IF'JE GM IA G IA %AJMG J IG A A FE PA D AJ G I ' IF IA R AA' CG "J 'G EFK F'J G DFOA IA E NNAE G' "AEE 'PF"F FB"A IA FE F""G AJ \ FE E F G' I E G ' AEPG'E B " K \ G IG"J G ' 'JAM ' A IGPAE G IA -G JE IF IAK D NI CF"C "F A G' 9" UFBA I E FEE E F'CA DG A E A"K IF' IA G ' "A A DP" AJ

% A A' E A A DG 'N GG MFE MG J P"GDFCK GM I E O 'J FE 'G P B" C"K 'JA E GGJ ' #CG "F'J IF IA DF FNA F AJ G'"K ""% %G I A"" E J G CA E FE CG'C" JAJ F'J IA PAGP"A A A'N G 'N JF "K DG A MAF "AEE ' IA A(P AEE G' GM IA 'J N'F G' $IA BGKE F # " 'N P"FKAJ IA D JA GM +F '"AK BAMG A IA -G JE $IA F" GM %G I A"" MG""G AJ F'J IA BGK IG AP AEA' AJ %G I A"" FE MG 'J'N " K I AJ G IA NF""G E F'J I 'N I E CI IAF K NGGJ "" IF " OA IA -G'JG' KG I IG P"FKAJ ! I " P BAMG A * KF E 'E AC G' IA FE IF"M JAFJ BAMG A IAK C I D JG ' f $IA "F CG E '9J 'L B NI A A C"GEAJ FE M IA PG A E GM IA DFN E F AE IFJ CAFEAJ I IA R AA' E CG'M 'ADA' $IA IG"A CG ' K FE I EIAJ ' G IA E "" 'AEE I CI MG A G"J IA CGD 'N E G D TF K # F IA EA"M FPPAF AJ A'

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' :=?><= >' 6:D @' ; :' T Y ' _ 2<;< ' >' 6:D @' + $ ' N " '
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I CI IFJ BAA' P AEA' AJ G IA BK IA -G JE X 516
FE A EIA EF J IF EIA IFJ BAA' A " F' J H-K
E F'NA"K IF' J"AJ/ B EIA IFJ E 'CAX BAA' EG A""
.EAJ F' J AF AJ IF EIA IFJ 'G CF Eb G CGDP"F '
F' J EIA EIAJ IAD G Q A IADEA" AE $IA
>FD " G'E MG IA G ' P PGEAE IFJ IA"J F"GGM M GD
IA # " 'N CG'MAJA F AE/ IA CIB EIGP GM # '
'J A E IA + OA E B G IA IFJ CIF NA GM IA
J G CA CFEA I CI IA FE I K 'N MG F J I F""
IA EPAAJ I CI I E CG E F""G AJ/ F' J A"K 'N G' IA
AFCIA G E E PPG GM I E MFD "K EIA JAEP EAJ F" OA
IA F ' 'NE F' J IA DA'FCAE GM IA AE $IA J M#
C " K MG AEAA' BK JA # " F IFJ GCC AJ ' %G I A"" E
E / IA J G CA BA 'N JADF'JAJ BK IA MA G' IA
N G 'J GM IA I EBF'J E FJ " A K IA "F J J 'G
PA D I D G DF K FNF ' -FJK % CC"A CI IFJ
CGDA G IA AEC A BK G" ' AA 'N G E AF IF
IA IFJ P GD EAJ DF FNA G IA BAMG A IA IFJ DF L
AJ -FJK %G I A"" F' J IF IA "F A IA AMG A FE
>G "F M ""K I E MA/ f B EIFDA"AEE FE IA PF AE
*A A I E AEG CA FE GG D CI MG IA F JFC K/
F' J F "A'N I F CG E 'EI P ' IA MG I JAN AA FE
J ECG A AJ BA AA' IA >APB 'E F' J IA 8G JG'E MG
I CI IA AQ AJ J EPA'EF G' IFJ 'G BAA' P GL
C AJ) ' I E N G 'J IA CIB EIGP JAC"F AJ %G I
A"E DF FNA ' ""/ MG M ""A EAC K F E FE 'E L
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>9: <=:C<:=: =% !
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9F MG 'J I DEA"M FE M AA G DF K FNF ' FE I E G '
F'J IA CIB EIGP E ' Q K CG "J A'JA I D $IA
GBHAC GM IA E FK F + 'BF IF 'N BAA' FCCGDP" EIAJH
IA A 'AJ G' IA : J G 9J 'B NI FCCGDPF' AJ
BK IA R AA') ' IA MG""G 'N # 'JFK X IA BF' 'E
A A FEOAJ ' # 8 "AE E = I CI $IA D ' E A A`GI'
= F N AM EAJ F M E G P B" EI IAD/ B %G I A""
I AF A'AJ G IF'N I D F'J IA E BD AJ 'JA P G
AE TF "F'J IG FE E "" OAP I IA =G
FE F P EG'A EA' P F A G J G + K IF IA
DF FNA G "J CA F '"K FOA P"FCA F'J IF IA I DL
EA"M ' A'JAJ G AECFPA F IA M E GPPG ' K F'J
HG ' I E M A'JE
) ' IA 1 I TF K # F JF AJ IA J N'F G' GM
9J 'B NI BK J 'N P B" C"K I G NI IA E AA E I
%G I A"" F IA B J"A A ') ' IA 6 I IA "FE
MG DE GM IA J G CA A A CGDP"A AJ F'J G' IA 0 I
IA R AA' 'MG DAJ IA G "J BK P GC"FDF G' IF
DG AJ BK %G I A"" E DF'K AE EIA P GPGEAJ G
FOA I D MG IA I EBF'J $IA =G FE E "" E L
G 'JAJ BK F BF'J GM C I GF E $IA R AA' IFJ
5 444 C G 'E BAE JAE IA HA A"E $IA NG"J MG' I CI
9" UFBA I P AEA' AJ F `FDAE E BFP ED FE DA" AJ
JG ' F IA T ' / F'J I E P G JAJ I DAF'E
GM PFK 'N IA FNAE F "AFE MG F DA EIA FEE AJ
IA EA"M IF EIA IFJ 'G I 'N G MAF) ' IA 3 I EIA
FPPAF AJ ' IA =G GM #AEE G'/ X * IA AFE IA H JNAE
EIA EF J X IFJ DFJA EGDA JG B G E MG IA FJD ' EL
F G' GM H E CA ' CG'EAQ A'CA GM IA CFP K/ EIA
JAE AJ IAD G 'JA E F'J IF F" IG NI EIA IFJ BAA'

g ,>B:<?D + :@E @@:' > 6:D @' + $ ' _ 4<$ F:' > ' :=?> =' + $ ' U Y '
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J EP"AFEAJ F IA CFP A IA 9F $E E BEAQ A' NGGJ = F (
BAIF G IA ACG""AC G' GM I E PFE EA CAE F'J IA 516
IGPA GM M IA EA CA M GD I D ' IA M A IFJ TFK
'J CAJ IA G MG N A I D #IA FE 'G M AA F'J
'JA 'G AE F ' $IA B E 'AEE GM IA E F A CG "J
NG MG F J FE E F" F'J FE F GOA' GM IA MF G EIA
' A'JAJ G P GDG A IA 9F G M IA IG'G
$IA EFDA JFK EIA C AF AJ %G I A" + OA GM) O'AK
X IA R AA' P"FC 'N IA CG G'A G' I E IAFJ I IA
G ' IF'JE
)'A J E 'C N" DPEA ADF 'E GM I E DF' 'G G' IA
A A GM I E DF FNA F'J BAMG A $ "F K# F E JAN FL
JF G' FE CGDP"A AJ # `FDAE TA" ""A E 'CA I E
A"AFEA M GD + 'BF IFJ OAP F F J E F'CA M GD IA
=G 'G " O 'N IA 9F " E 'A NIBG IGGJ >A CFDA
IG A A G'CA DG A G >G"K GGJ G EAA I E D E AEE
BAMG A F"" FE G A * IA' IA A' A AJ IA IF" IA MG 'J
IA 'A DFJA + OA E 'N F E PPA IA A I > ' "K
F'J EGDA GM IA "FJ AE GM IA =G $IA + OA X BFJA
I D A"CGDA EF J IA FE F E F'NA F'J G"J I D G
E JG ' F'J AF X EF J AE TA" ""A \ IA DFK
A"F A IA ECA'A ' I E G ' G JE \ X EF J IF IFJ
E PPAJ F" AFJK $IA' IA CF""AJ MG F C P GM 'A F'J
J F'O G DA EFK 'N I VG 'AAJ N G MF A / IA UAF
GM IA =GDDG' AF" I IF I AF A' KG P F'J DFJA
KG "AF' p $IA' IA MA" ' J ECG E 'N I IA NA' "AL
GDA' EPAFO 'N E CI M " IK "F'N FNA IF IAK F'J
"AM I D F'J A' P G IA R AA'
$G DFOA F' A'J GM I E
' IA AF "K JFK" NI F MG ' IA DG ' 'N G' IA
I GM TFK TF K # F R AA' GM #CG "F'J R AA'
GM @ F'CA F'J IA P AE DP A G IA 9'N" EI = G '

0 BACFDA IA MA GM I E IA MG "AE MM F' FDG'N IA E BHAC E G F E 'N"A 'GB"ADF' FE P AEA' / > ' "K 516 TFK = F MG J @"AD 'N %GKJ >A AE A A F"" ' 9J 'L B NI B IAK IA"J AEG" A"K F"GGM + = GC X CFDA ' 'G IG NI AF 'AE "K A' AF AJ $Ib CA ADG'K FE PA MG DAJ ' IA =G 'C " =IFDBA ' 'G ' ' IA CIFPA"' JFD %G I A"" % EIGP GM) O'AK IG CF""AJ I DEA"M F ! G AE F' GMM C F AJ/ F'J IGPA"AEE GM NF ' 'N IA =F IG" CE IA 9F " A(PAC AJ J"K IF IA D NI AF ' MF G I IA ?AMG DA E BK B 'N 'N IA R AA' G J EIG'G GPA'"K IA =F IG" C MG DE F'J F""G IA EA"M G BA DF AJ I IA =F" ' E EA CA FE 'G IG F PF'N IF TF K # F DFJA I E "FE EFC 1CA G IA PFEE G' F'J B GOA IA "AE GM F A" N G' I CI''G ADP F G' I IA G IFJ P A F "AJ G' IA G PF I #IA FE DF AJ X ' IA JGG" AAJ ' JAAP DG ' 'N X IA DGE CIF'NAJ GDF' ' IA MFCA IF ' 'EG" "A DA IG A(AD K GM E CO'AEE IFJ BAA' EAA' #IA IAF J DFEE IF JFK MG IA "FE DA F'J IA'CAMG I EG "G'N FE IAK ADF 'AJ GNA IA BG I EIA F'J IA I EBF'J A A G BA ! G AE F' E `' A =F" ' E C MFEI G' IA 9F " J J P B" C PA'F'CA MG I E PFE ' Q AE EA DG' MG""G AJ IA GF FNA ' 'X I CI IA B EIGP X J J JAC"F A IA PA' L A'CA GM IA 9F " %G I A"" MG I E " MA PFE CG'MAEEL 'N I DEA"M G IF A BAA' F' A " F'J COAJ " A I CI IA G "J 'G FDA'J F'J CG'MG D I DEA"M G IA =I CI $IA PFEE A R AA' ' F"" I 'NE E BL D AJ > E M E FC FE G GB F ' F A GCF G' M GD IA GM F"" " CA'EAE G EA IA =F IG" C EA CAE F'J F JAC"F F G' IF MG IA M A IA C GM ?A" N G' GM 514 P GI B 'N IA DFEE G A A K G'A EIG "J BA E C "K DF ' F 'AJ

EAADE FE M IA MF F" E AP G'CA FOA' TF K'# F E EP MF "AJ IA TG A IF' G'CA F" AFJK' ' IA EF'A 516 ' A F"E EIA IFJ EAA' I G NI IA ` F A GM IA 'FF' MG IGD EIA FE EFC M C 'N IA EA"M #IA IFJ BAA' E 'N BK I E CG"J'AEE G M NI A'AJ F' I MA 'J MMA A'CA I CI EIA E NN"AJ 'E CCAEEM ""K G CG'CAF" M GD IA EA"M/ F'J IA P G J GDF' IFJ P GE F AJ IA EA"M . I E MAA ' ' IA FNG'K GM IA PFEE G' G P"AFJ MG IA CG' ' F'CA GM I E"G A

` G P GMG 'J"K EIA FE F 'C" AJ G' %G I A"" FPPAF E' ' IA MG"" G 'N "A A \ G'A GM IA G' GM I CI' IF A' ACG A AJ' IA 'G N 'F" *G JE' ' FE' A' ' H E' BAMG A' IA' DF FNA

X TG'E A L '# ' A' ' K'JA' GE A' FBEA'CA' CA" K' JA' GE A' G B" ' "F' C F ' A' J ' JF N A ' F' ' P GD E' J ' CIFC ' 'F' GE A' F' ' FKDA' PA EG' 'A' PA A' ' DA' CG'EG""A ' HA' G E' A' "AEEA' F' H NA /' A ' "A' DF"IA 'Q A' DG' 'C A"' EG 'A 'CG' ' A"' DF"IA ' D F G A' ' P GD E' F' "F' E A' JAE' 'L MG 'AE' A ' C F ' AE ' F' ' bCA' AE' Q A' PFEEAE' JA' P" E' "G 'N A' DF ' ' "AE' Q A""AE' G E' ECF AE ' TF E' PG ' G ' CA"F' HA' DA' G E' FCC EA F' ' ' JA' PA ' JA' EG A' F' CA' ' ' JA' PA ' JA' EG N' A' A ' DG 'E' A' CG A' JA' GE A' P GDAEEA' G"AA ' G ' JA' "F' M G JA ' JA' GE' "A L AE' /' D AE F' 'KF' F' ' F' J A' GE A' Q A' CA' Q "" G E' P"F E ' D AE ' FN bL FB"A' /' A 'EG' ' DAE' PA 'EAE' F' ' G"G' ' A ADA' 'F (' GE AE' FE BHAC AE 'Q A' HA' A "(' P bE PPGEA ' Q A' G ' CA' Q A' A' ' JA' G E' P GCbJb' 'G' ' PF ' F "C ' A' JGE' CF EAE' JAE EJ C AE ' F 'E' PG ' A""AE' Q 'EG' 'H E AE' A ' F EG' L 'FB"AE ' A ' A""AE' Q A'HA' JAE A' D GK ' DAEDG/' Q ' AE ' " G J A' Q A' D F AE' P GD E' JA' P A' J A J' FMPG '"F' EA A' ' A ' IG 'G FB"A' EA CA' J 'EA "EG B A' JA' DF A ' PG ' Q 'EA "HA' "F' A (' CG 'EA A ' A 'EF 'E' "AQ A"HA' ' A' JAE A' Q A' B A A' D G ' G ' AE/' PG ' G E' AEDG N' A ' CGDB A' ' I DB"ADA' ' EG E' GE' CGDDF' JADA' 'HA' DA' EG B ' DA U' HA' G E' FK' A G b' A' ' E N' A' J BG 'FNA' PF ' !F E' "GDADA ' J ' CI AM ' CG' J C A ' JAE' F " AE' DADL B AE' 'Mb F' ' Q A' G E' ' AE F' ' JA' "F' JAEPG ""A' " K' Q ' AE ' P 'C PF" ' "A' AE ' ' A' PA " ' Q A' G E' AE A' E BHAC /' A 'F ACQ AE' "A' CG 'EA' ADA' 'J 'CGA ' F' ' "A ' J ' Q " ' P E' Q A' "A' G E' FK' HF' "AFEA ' HA' G E' A' G A' ' ' EbP "C A' JA' P A A' J A ' PA 'C ' J ' ' G ' EADA' JA' "F DAE' A ' JA' GEEADA' E' - F' P A A' HA' "F' CGDPF A' F' DG' ' C A ' Q ' CGDDA' " K' AE ' F"" A' A' ' ' EA ' GDBAF 'G ' ACAP FC"A' JA' GE' CGDL DF' JDA' E' A E ' G 'J ' GE A' 'GD' A ' DbDG A 'Q A' K'EG' ' A ' C"GE' CGDDA' DAE' CIA A "(' A' ' "F' BFN A ' PG ' HFDF E' ' A' ' EG ' Q A' "F' DG ' ' A' G E' PA DA ' MG A' GPIbA' JAE' DAE' GE' ' CGDDA' "F' BFN A' A' ' AE ' ADP" A' A' ' E N' A' Q A' G E' F AE' MFK ' A' ^ A' CG 'Q AE A' JA' DGK' JA' DG' ' C A /' A ' H EQ A' F' G E' A' ' "AEEA ' "AE' GE' PG ' DADG 'JA' GE A' C Gn A' A ' JA' DG' ' FN bFB"A' PA A

X - AE' "F DAE' EG' 'EG' E' 'GDB A ' F ' L E ' EG' ' "AE' C F ' AE ' JA' G E' JAEP"F '/ "AE' P"A E' JA' GE A' FBEA'CA' A ' "A

=> !,> #IA FE HAF"G E GM I E J G CAJ MA G IGD EIA
516 E EPAC AJ IF IA FE E ""F FCIAJ F'J IA '' ''
+$ FE F AJ F F'K M" 'N MF G I CI EIA D NI
EIG G G IA E IF' I DEA"M) ' IA JFK GM IA DF Y
FNA EIA G"J J = GC IF EIA FE EG D EA FB"A IF
EIA G'"K EIAJ MG JAF I F'J G JFKE FM A ''
%G I A"" E P AEA'CA EIA CF""AJ MG F JFNNA G O ""
IA EA"M + = GC NF A IA PGG CG'EG"F G' >A G"J

JAEP"F EA JA HA PG G AE A A'' AMMAC A(b A GE A'CGDDA'HA'E KE EF'E MF ' KEA JA' C A A' J AEP A F BG'' J G Q F'J' DAE' Db bE EA G' GP' P" E' N F'JE' Q A' JA' "F P" E' PA MFK A' Q A' HFDF E' MA A' A A""A' Q A' HA' JAE A' AE A'' A' Db FK PA 'A' A'' CG'J G'' JA'GG' AMF 'PG J N'ADA' AE A' ADP"GKAA' EG BE qGE A' JGD 'F G' ?AEA' E'"F' JG'C' DG'' EA "" B A'' A'' F EE BG'' A' PF CGDDA' F ACQ AE' A(ADA' HG A' H FK' MF GE A' DF FNA' Q H EQ A' F' CA" K' JA' 'GE' CG PE' A'' P B" C' 'A' EG F' JA' DG'' EA '' CGDDA' DA Q A' JA' G 'CA' Q A' HFK'G 'AEPA A'' 'JAE A' JA' Mb" C b' A'' CA' DG'JA') ' C F L N'F' ' DG'' C A ' JA' G E' A'' KA ' F F' '' F'" A' Q A' HA' DA' P"F EA' JAEC HA' M ' FK ' FP AE' G E' F G ' BF Eb' "AE' DF 'E' J F EE 'N F' JA' FMMAC G' 'Q A' HA' P A' + A ' G' "A' EA "" EG B A'' JA' DF A' G E' "F' JG'' A ' "G'N A' A ' IA L A EA' A ' F' DGK' GE A' BG'' A' NNFCA' CGDDA' "A' EA "" B A'' Q A' H G' JAE A' A ' F' Q GK' HA' A' JE \ '* 2', $/ ' 3)' - $ ' G"' ' G' 11' 5 '

' '$IA A' E' GM A'' HF E' BA AA'' IA' R AA'' F' J' IA' + OA' F" AFJK/' > A' FE' GMMA' JAJ' I' IA ' MG ' IA' N M ' GM' F' IG EA' I CI' FE' IA' 7 'N E' G' IA' BBG ' GM' B GF I'' _-G J' `GI'' > FD " G'& \ + K' G' =AC "' T FK \ ' 516 ' " ' ' $IA' F' NA ' FBG

B GF I' DFK' IF A' BAA'' HAF"G EK ' '$IA A' E' F' CI' '' IA' G I'-F' J ' + K' G A' G'' IA' 34 I' GM' TFK ' X IF ' FM DE IF ' IA' R AA'' EIF"" IF A' KA ' G' CGDA' G' I EBF' JE' DG A/ B GF I' EIF"" BA' G' A' GM' IAD ' G' E CCAAJ' IA' + OA' 'G ' IG' EIA' EFKE' EIF"" 'G '" A' IF"M' F' KAF ' G ' F' KAF ' F ' IA' DGE ' $IA' M M I' I EBF' J' EIA' 'FDAE' PG ' B ' EIA' EFKE' '' I E' DA' EIA' EIF"" BA' B 'AJ' I CI' JAF I' J A E' JG I' EPAFO' GM' G' IFPPA'' G ' IA ' F' J' FE' KA ' ' E' EF J' EIA' MAF E' IA' EFDA

' ' A K' CGDDG' P"FCA' AFEG'' FE' N A'' BK' TF "F' J' MG ' IA ' 'IFPP L 'AEE' X%G I A"" ' IA' EF J' X G "J' 'G ' "A ' IA ' "GGO' F ' F' K' G' A' G ' "A ' F' K' G' A' "GGO' F ' IA ' A ' Q "' ECF G ' B A'' Q A"" A' FKDG ' EG'' P"F E ' A ' F' PFEEA ' EG'' ADPE' F " F' ' Q A' F A' J ' DG' J \ ' ! ' ' ! ' ' ' ` 'A' 4 ' 5 $/ $' G"'

' ' + ' = GC' G' =F IA 'A' JA' TAJ C ' T FK' 0 \ 3+ ' # '`FDAE' T A" ""A ' P GBFB"K' AMA 'N' G' IA' EFDA' ECA' A ' EFKE' X'$IA' R AA'' DAF' I "A' FE' EG' J EJF 'M ""K' IF' J"AJ' F' J' I' E CI' AP GFCIM "" "F' N FNA ' IF ' '' P AL EA' CA' GM' I ' 9 EO 'A' ' IAF J' IA ' FEO' MG ' F' O ' MA' G' E FB' IA EA"M/ I' G ' A"EA pEF J' EIA I 'EIF"" J G '' DKEA"M p'' ' ' ' ' 0 ' ' .

IA IF IA DF FNA FE A "K 'A(C EFB"A/ M
IA R AA' TG IA IFJ 'G MG B JJA' I D G "AF A I E 516
PGE IA G "J 'G IF A ADF 'AJ ' 9J 'B NI FM A
 IFJ FOA' P"FCA F'J IA AM EAJ G PFK AEPAC G
%G I A"" FE IA I EBF'J` VA IA PA GJE GM A CIAJL
'AEE A A B IA ' A D A' CG"J M E ' IA MA A GM
IA PFEE G' #IA IFJ EFC M CAJ IA EA"M EG F'J BGJK
F'J IA IA"J IA A' I F""AJ ' IA CIF 'E GM IA G '
B ' 'N FMMAC G'

' #CG "F'J NA'A F""K IA A FE KA G F J E ""L
'AEE $IA -G JE IFJ I AF A'AJ IF M EIA DF AJ
IAK G "J C G ' IA ! 'CA EAADAJ FE M IAK
IFJ IG NI BA A GM MG IAK J EPA EAJ G IA
IGDAE/ F'J IA R AA' FO 'N CG FNA EA' F JADF'J
G IA 9F GM TF MG IA E A'JA GM # " 'N F'J GM
IA CI "J 9" UFBA I E 'CA F ' F'E A IFJ JA"FKAJ
IA AEG" G' G FC / F'J TF 'G A' 'N G N A
F J AC AM EF" CG "J G'"K AP"K IF X IA JF AJ 'G
JA" A IA ! 'CA G GM I E IF'JE IG CG'EA' GM
IA 9E F AE $IA F'E A FE F""G AJ G PFEE
FE 'G %G I A"" E GBHAC G P AC P F A F Q F A" F'J
IA CG' ' AJ G MG""G IA CG EA I CI IA BANF' F
I E DF FNA BK PFK 'N CG G IA ! G AE F' E >A
F A'JAJ IA JF "K EA DG'E I AJ MK 'N AN "F K
F'J FE PG ' AJ"K F A' A G IA D ' E A E 9 A K
JFK J A GJA G I IA R AA' F'J FE GE A' FL
G E"K AEPAC M ' I E DF' 'A G IA $IA A A
P A K E NN"AE IA' IA G "J PAH/E E ' J 'N X 'L
BG' 'A AJ F'J EIA G "J E'F CI I E CFP F'J MG CA 'G'
I E IAFJ X $IA IF A GM IA PAGP"A 'C AFEAJ DG A F'J
DG A KA IA G "J 'G EAA /F'J IG NI IA A'

 X # AE CA Q A H_ K PF "A B A' $ # ' ACGN'G E A CGDDA DF K JA
IF " ' ' JAP E "A " FK HD "F "rAK 'A \ $ "r$ G"

/ $ 3 $% 4 & +

!""" 'G IA A IG F N F J KA IA GMMA AJ I DEA"M FE F
N AE F IA DAF"E GM IA ' "" 'N 9J 'B NI C UA'E
) ' IA 35 I GM TFK G FD EA IA PAGP"A IA A FE F
PFNAF ' F -A I F'J F EIFD M NI G' IA F A FE NG
P BK %G I A"" E MG""G A E 9 A K I 'N FE AJ G
J EPA" IA E F'NA'AEE F'J DFOA IA DF FNA FPPAF '" OA
F'K G IA G J 'F K A A' $IA % EIGP GM + 'B"F'A FE
EA' G !F E G PFC MK IA R AA' E M A'JE IA A >A
FE G A(C EA IA FE IF 'N BAA' MG CAJ ' G DF KL
'N %G I A"" BK IF IFJ IFPPA'AJ F + 'BF / KA ''G
EG EA A A"K G B"FDA I D FE G DFOA I D FPPAF ' 'M
G BA IA I EBF'J ' FE B F" DP 'N DAEEFNA #IA
EF J '' IA ' 'E C G'E G IA % EIGP IF IA 9F " IFJ
BAA' D E"AJ ' G G"A'CA BK IA AIADA'CK GM I E "G A
IF IA IFJ BAA' F MF IM " EA F' '' IA PFE G B"AE
F'J IF PA EAC AJ FE IA FE BK CF" D'K EIA IFJ 'G
DAF'E GM EF 'N I E " MA A(CAP BK BACGD 'N I E MA
G A K CG'E E A' "K I I E F N DA' EIA EF J IF
F"" #CG "F'J EAADAJ G BA F I E JA G G' >A PAGP"A
JAE AJ G EAA IA DF AJ F IA G F 'F A #CG IF''
G F E F'NA %G I A"" IFJ EIGCOAJ IA '' DF'K
FKE/ AEPAC F""K IA G NI G IF A CG'E JA AJ IF FE
J A G IA A" N G' VA EIA J J 'G EI IF GG
D CI MF " EIG "J BA "F J PG'' I D $IA PFE CG "J
'G BA ACF""AJ >A FE IA I EBF'J F'J EIA E AJ
IF G IA CG E G "J FCCAP I D FE E CI ' D NI
BA GBHAC AJ IF IA BFJ BAA' F" AFJK DF AJ/ B F
"ANF" J G CA IFJ BAA' P G'G 'CAJ F'J IA FE M AA
BAMG A EIA BACFDA I E MA

#IA CG "J 'G CG'CAF" M G '' IA EA"M IA "FDA'AEE GM
IA A(P"F'F G' B EIA IGPAJ ' G "J BA FJD AJ
FE G"A FB"A/ F'J EIA G A F IA EFDA DA G IA

' C <;D > C >' 9:' ' C9>H >?' 2 ; B@$: Y #

CIB EIGP GM 8"FENG BANN 'N I D X G BAE G I E => !, E JK ' IA G JA 'N GM IA DAEEFNA F' J ' PA E FJ 'N IGEA G IGD FE J AC AJ G BA" A A IF FE IA I 516

+ 'B"F 'A DFJA B F PGG FPG"GN E >A EPGOA GM I DEA"M IA ' IA F AJ FE F M N A MG A" N G' M GD F CG ' K IA A IA =F IG" C MF I G "J 'G "G 'NA BA PA D AJ G A(E $IA CIB EIGP GM 8"FENG J J I E BAE I I G IG >A A' AJ F MF"EAIGGJ G IA #PF' EI DBFEEFJG FEE 'N I D IF IA bPG IF EIA IFJ MG EFOA' IA A"E G' FE 'CG AC FIJ IF IA JFK FM A IA DF FNA F IG EF' J PA EG'E IFJ IAF J DFEE I IA + 'B"F 'A IG A A "A G IA MF F" CA F ' K F' J I I E G 'MAF E IF X '"AEE 8GJ EA G > E IF' J IA A G "J EGG' BA 'G DG A DFEE ' #CG "F' J

$IA @ A' CI =G ACA AJ IA FPG"GNK I GPA' F' J 'J EN EAJ CG' ADP TF K # F FE ANF JAJ FE F "GE sDF' F' J IA G PG" CK FE 'G G F' C PF A 9 'N"F' J ' E PPG 'N IA -G JE G NA IA ! 'CA ' G IA IF' JE F' J ACG A I E IA 'M" A' CA I CI IAK IFJ "GE X $IA R AA' TG IA G A # > G E X E D 'JAJ F"" EIA CF' G DFOA P GM GM

' + $ '! ;$<' >' 9 :'&<D9B C9>H'>? 4@$CF> '+$ '4 6 ' 'E>@' ' 2 7>' 8 :' :@ = D9>' : 8 B$ $=><' f 9 :' &<D9B C9>H' >?' 4@$CF> ' $8\ B$CC$=><' $ ' 1$< CZ' L ;' :@ = $' C \ F ; :' =:@ 8 $ < ?> 8 >' =:' C ;' $ 8 $' ?; e' H ; B@ D$ 8 : :' X' @$' 8 CC$' 'L ;' 9 ; B>' 8 @ 'H :<C> $C' : ' :@@$' 2 D :' :@ >B CH>' f =:' 2 ; B@$:Z L ;' :C B @$' 'E :<=$=' L ;' :@ H<>H< >' = $' L ;' C:' D$Ce '> e' 8 CC$' '=:' @$ D$H @@$' => =:' @$' > e' ?; ['X' 8 $' C$@$' F<$ =:' => =:' C:' 9 I>' :@ 8 $ < 8 > >' H><' 8 $ >' =:

; >' >B CH>' :@ 8 $ >< 9 :<:F:' L ;' $ ' : ' $L ;:@ <:M 8 >' ' L ;' >=$' @$' D:< \ 8 > $' ?; ['X' @$' 6$@E C $' ' F; >' =:' @>C' = $C' =:CH ;[C' =:@ 8 $ < 8 > >' C$B:' L ;' C:' 9$ $' = D9>' : ' C ;' D$C$' 'L ;' $@F ; >C' H$< D ;@$<:C' @$' 9$D: ;' =:D <' : ' C ;C' D$C$C' C:D<: $ 8 : :' H:<>' L ;' :C >' C:' DB$<X' H<:C >' C' 2 >C' >' H> :' C ;' 8 $ > ¼ ' I ' ' . ' J' I '33 ' 0 ' %&' ! '' -9$' E>@' ' ' * 9 :' , F@ C9' + C :<' $ ' 1$< C

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516 I FE eFF' K FE EIF"" BA FB" A G EA A IA ' '

+ $ X VG T FHAE K Nj J = GC G I E D E AEE X DFK EIG KG EA" M FE J EP" AFEAJ FE KG " I E DF L FNA E j BFJ B E 'AEE @G DKEA" M IFJ BA A IJ F F' J" AF A IA -G JE G P" FK IA NFDA MG IADEA" AE Y

FE 'G G BA" G' N ' P" FK 'N $IA M E AAO ' ` 'A NK" A TG G' IG" 8" A' CF ' IA TFE A GM 8 FIFD > DA >A AE - 'JEFK $. BF J 'A 8 F' NA F' J DF' K G IA ' 'GB" ADA' F' J NA' "ADA' AHG 'AJ TF F # " 'N TF "F' J E G" A F FK G IAD M GD IA =G IG " AF A FO 'N =F IG" Q F' J ! G AE F' MG G' CA A A NG 'N IAF "K GNA IA

$IA M E IG NI FE G DFOA F E GGP GOF >G" K GGJ E G 'J IA PF" FCA F' J FOA %G I A"" P EG' A NK" A IG FE I DEA" M GG JAAP" K CGDD AJ ' IA D JA G FPPAF ' IA M A" J 'EA' F ' 'N G IA R AA' / F' J IA + OA EAA 'N P" F '" K IF IA C E E FE CGDA F' J IF IA D E M NI G PA EI JA A D 'AJ G BA IA M E ' IA M A" J TG' AK FE FNF ' F' 'N TF K # F IFJ 'G J EPGEAJ GM IA HA A" E F' J IA N F J FE D 'G E F' J ' E G IK %G I A"" E CI AM E A' N I "FK FDG' N IA BG JA A E >A EA' G J G I E M A' JE G CG"" AC F TA" GEA G' IA 6 I GM ` 'A/ F' J J GPP 'N IA R AA' F %G I CO =FE "A G' I E FK IFE A' AJ JG ' I FE DF' K GM I E DA' FE G "J MG" L "G I D G P" FCA I DEA" M F IA IAFJ >A FE G GM MF G I MG 'A IG A A TF(A"" >A AE F' J -G J > DA P A A' AJ IA BG JA A E M GD DG 'N F' J G' AFCI 'N IA A' JAU G E IA MG 'J 'G G' A IA A

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CGDA G I D I F"" IA MG CA I CI IAK CG "J F EA
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DAEEA'NA FE ' A CAP AJ BK F BF' J GM TA G' E MGB
"G A E/ F' J TG G' "AF ' 'N IA A %G I A"" FE
F ADP AJ G E P EA I D > DA - 'JEFK F' J TF
HG 'AJ IA PF K F' J G' IA ' NI GM IA "G I _$ AEJFK&
IAK NF""GPAJ JG ' G %G I CO F' J E G 'JAJ IA
CFE "A ' IA JF O'AEE #GDA GM IAD P GMAEE 'N G
AP AEA' IA E CCG E A(PAC AJ M GD 9J 'B NI P AL
EA' AJ IADEA" AE F IA NF A/ IAK EF J IF IAK A A
P E A$ F' J C"FDG AJ MG FJD F'CA $IA + OA F
IA DGDA' FE E APP 'N ' G BAJ >A M" 'N G' I E
C"G IAE G' IAF 'N IA 'G EA F' J AFC IAJ IA CG KF J
BF A"K ' DA G J ECG A IA D E FOA F' J P A A' IA
E F FNAD M GD BA 'N E CCAEEM " % IA CFE "A FE
'M ' EIAJ F' J CG "J 'G "G 'N BA JAMA' JAJ >A O'A
IF M IA X FE FOA' IA G "J BA 'E F' "K O ""AJ IF
` E JF'NA G E EAC A E D NI J A I I D/ F' J FCCGDL
PF' AJ G' "K BK F EG' GM -G J = F'E G' IA E" PPAJ G
BK F PGE A ' FDG'N IA AAE $IA M N AE A A EAA'
F' J CIFEAJ F' J IAK EAPF F AJ G J E FC IA P E A E
IG '" CO "K MG""G AJ F' J CF NI IA G'N DF' '
%G I A"" FE 'G F' F G EIG J E F' / F' J KG 'N
= F'E G' ' I E A G PG ' AJ G IA FK I CI IA IFJ
FOA' B IA FE 'G BA" A AJ $IA + OA AECFPAJ G
>FJJ 'N G' F' J IA'CA G + 'BF
$IA -G JE 'G O'G 'N F M E IF IA FE NG'A
A A EIG 'N 'JA IA 'JG E\ X CF"" 'N I D F G
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516

F J MG " F ' E A A M" 'N F IA I CI EIA JAEPA F A 'G F ' J" OA F "J CF F BFK A 'AJ ' 'O 'J * IA ' IAK "AF 'AJ IF %G I A"" IFJ AECFPAJ IAK J A GM "AF 'N Ib R AA' G J EPGEA GM IA EA"M FE EIA P"AFEAJ F 'J A 'AJ MG 9J 'B NI $IAK F AJ F 'A NI ' IA DG ' 'N $IA CFE "A PF K IFJ EI IA NF AE B - 'JEFK ECF"AJ IA F"" IG DAA 'N F 'K AE E L F 'CA F 'J IA -G JE IA' 'A' A 'N ' F BGJK APF AJ G IA DF OA P"FCA F 'J JAC"F AJ P B" C"K IF IAK IFJ EA' ' F DE' G P E FA IA A A 'NA MG IA JAF I' GM IA 7 'N + = GC F' (G E G P A A' B"GGJEIAJ A' G IA CFE "A G CG 'E " > ' "K F 'J BK > ' "K E FJ CA EA' G TF K G GMMA G DAJ F A #IA AP" AJ IF IA D NI JG IF IA CG "J B M IA -G JE 'L A 'JAJ G 'H A IA I EBF 'J EIA G "J DFOA 'G A DE I IAD

$I E A A' E A A "AM G IA CG EA F 'J FE IA DG ' F ' IAF IA IA' O 'J"AJ ' IA J K EP 'N AF IA B"FUAE ' IA 'J F 'J IA M"FDA EP AFJE F 'J EP AFJE "" F"" IA IG UG' E 'NAJ I M A EG F IA P GC"FDF G' GM IA -G JE IA IAF E GM IA #PG CI PAGP"A M"FEIAJ P ' ' A EF" CG 'M"FN F G' $IA D JA AJ +F '"AK FE A"A F AJ ' G F EF ' F 'J A 'JG AJ I F"" DFN 'F K AE/ f F 'J ' M"K 'N B GFJEIAA E GM A EA A A K #CG IG CG "J A"J

$ S 9 = E:<C ; = ; ?;@ $ = ; (C: : 8 @ ' CH: : D9 : C ; C : = F C ' 9 : < %; : : ' $ = ! >E : <: F ' >>' : E @ $ = ; C: : 8 @ ' >' 9 : ' >@= ' 9 D9 ' H>><' 1< D:CC ' C9 : ' = = ' 9 ' 9 : <' CH: : D9 ' =: ?: = ' $ F' > 9 : <' 8 : $; C ' 9 : <' <: E: F: % ' ' ! ' ; : ' K ' *9 : C : ' ><=C :<: ' D<>CC: = ' > ; ' ' 9 : ' + ! ' $ = ' 8 $=: ' @@: F B@: ' 9 > ; F9 ' ?<> 8 ' 9 : ' ?$= F' >?' 9 : ' C: D> = ' J ' 9 : ' D$ ' > ' F ' B: ' <: $= ' *9 : ' @: : < H: <9$HC 9$= ' >' B: ' C9 > ' >' , @ I$\ B: 9 ' $ = ' 6 : D @ ' 8 $ ' 9$E: ' ?: $<: = ' >' @: ' 9 : <' C: : ' 9$ ' 8 F9 ' : 7$CH: <$: ' 9 : <' >>' 8 ; D9 ' F C ' 9 : ' 3><=C ' ' + $ C C "I ' $ $L ; > : ' $' C> ' 8 $<' L ; : @@: ' : ' E> ; @> ' H> D ' = $HH> (8 : % ' ! ' ' ! '38 ' ; : ' 48 ' 5 $ ' E>@ ' _ * 9 : ' ?: : @ F' >?' 9 : (!D> C9 ' H: >\ H@: ' $ ' 9 C D< C C C C F ; @$<@ ' $ = ' H> : <?; @@ ' : 7H<: CC: = ' ' 9 : ' ?>@@> (

-' 9 * 4-'$%' 9 M*N*O ' u:'

TFJA' 8G CI'"F'CA'G ' h ' NNA H' Fe' ' AJ' v/ FOA' A P,W W'
PF ' ' IA' A A'NA' ' H^/

F' 8@@$=' +D ' $C' H :=' > ' B<>$=' C9:: C' $ ='' CD$:<:=' $Be; '
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9%; << ≤

*>', = B;<F9'$B>; 'C C(9>;<C'$ ' 8><
&C' ' $C'H$CC F' >; ' 9:' $
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*9$ ':E:<' 'C9>;@='@ :' >'C:o' $'=$
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S 9' <$ ><C'C <> F'C>'D<;:@ 'H; '=> ')

*9: '=<: ' ' :$<'C>8:' = FC'?><' >'$H: <
& ='C$ =' + '?< : =' 9$ ' 8$ C' 9:'C$'
' '@>>= ' '> 9 :@@'9$ 9'B<>;F9 '>;<'# F' >'9: <'
& ='?@$:<'$ =' ?<$;=' 9' =>;B@:'1$@ @$

& ' : '9>;< C' '!; =$ '@$:'$ ' : :'
' S 9: ' '$@ @$'$ ='' > B <:@@B$=:'F>>=' F9
??9:<'? F:<'?$@C:'C9:' 9<: '> :'$ F
& ='C$ =' + '3><='$:' >J: ' >;' 'H@ F9

!9:'= ='=:H$<' 9: ' 9'$ '; <;:' <$ '
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P 'S D9' 9: <'?$< C' >'J > ' 9:'$HH> ' 8:'
&B>;' 9:' / F:C' H=F F'?><' >'D@$H

*>'=$ D:' 9$' F9 ' 9: 'C$ ='C9:'C9>;@=' >'C@$DJ
S 9'@:FF C'@ D9 ' >'9$@=' 9:' :=> ' $@J$ '
&' ='B =?<$'B:=(; @'C9:'B:$<=' 9:'D<$DJ
S 9 @J' C''C F ' 9$ '9:<'F>>='3><=' $C'C@8

4'KA' I_J' G'G ' O'IF A'JG'A'E BEC K A'
*9:C:' &D9 C' < '$@C : "' <$ C ' '8$
?' :'=>' > ' 9:' 8:' @@'D>8:'B:@ E:
*9$ 'p<>=' >' >;' @@'<$ C:'C>8:' >C;$ '

S 9 @J'C9$+' >;<'9$ 8 C'F$<'C F' $@@$ $
& =' >' >;<'C: E C'9: H; '=> ' 9'C9$8:'
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S 9:;' :'<: $<='C9$@@'<:D: E:'?><' >;<'9q$8

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" # D A E E F N A C F D A P M G D % A C O I F M I A A F E
516 G B A F C " F I A - G J E I F J B A A E A ' J I A ! ' C A
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S 9 D9 9<> ; F9 $@@ , ; <>H : C9$@@ < F @ J : $: B : @@
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S 9 6@ : 8 : C <$ = => > ?$: > ?@ : D9
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S 9 : # F , : : ?<> 8 6< 9F : >> J 9 : ?@ F9
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& = C@ : 9 : <C : @? 9 D9 $C $ C>< < C F9

! $ 8 F9 C9 : = : $C = = 6< : ; C$ B< F9
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S 9 $ B< $C ? : F$< 8 : (<> ; F9 B C@ F9
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& = =>FF C D> ; @ = 9 : < DJ : = B$ C F $

S : <: $ 9> ; =Y > 9 ? C9 : :<: $ 9$<:
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G 9 'N"F ' J MG EAC K FE F PGG J EIG 'AE G A) P(D
A F ' J F IA DGDA ' F ' J ' IA P AEA ' I DG 516
IAK IFJ 'G "A E A MG E CI EDF"" ' N AE $IAK IFJ
FOA ' ' IF ' J F ' 'A(FDP"AJ A' A P EA F ' J "" IA
G O FE JG 'A IAK G "J ' G "A IA D ' JE BA CF""AJ
F FK M GD

) ' * AJ 'AEJFK ' NI IA I TF K # F IA EA"M
E G"A F FK J EN EAJ FE F DF ' M GD %G I CO
%G I A"" DA IA G ' IA GFJ F ' J B G NI IA G
+ 'BF IA A EIA F AJ F I AA ' IA DG ' 'N
$IA A IG F J GBA IG F A 'JF ' E EF A IA
+ OA E GGPA E EIA BG G AJ F J AEE M GD EGDA
GDF ' FBG IA P"FCA $IA =FP F ' GM 'CIOA I
F @ A 'CIDF ' ' %G I A"" E PFK IG CFDA ' F I E
DFE A E DDG 'E MG 'J IA R AA ' GM #CG "F ' J ' F
EIG HFCOA I F AJ PA CGF I CI ECF CA"K AFCIAJ
BA"G IA O 'AAE IA GKF" J N ' K "F J FE JA I
IA GKF" CGE DA \ B G 'CA DG A IA EA"M ' IA G '
M AA M A CA 'F A M " GM M A F ' J M K E BAMG A
IA ' EIA IFJ M"AJ G IA EFDA + 'BF FM A 9 UU G E

*> 9 :< 'C9$@@ B : $: :> ;CY
S 9 : > 8 : & >H>C : ; 9 : ?$ = 9<:$=
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> 9$ 'H$?;@ ? @ 9 '?@>>= >?9 :"
& = 9 : ' ! 7 '$ = 3 : 9 : B 8 9 $$> :Y('
& = 6 :<B :<;C 9$ 'D<;:@ 9> 8 =C$?:@@
!9$+ F$< 9 :<<$ ' 9 8 > 'F>; $ = :@@
' $@@$ $ ' 9$: r :<C9 : $C B>8 '
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S B @J ?<>8 $@@ B@ CC C9>;@=D$;C : 9 :<B :?><@><

' $, C $ '$=E:<a : H$< C =: D :C : >; <D9 : M N $E :D ; ' $?: $I H$<\
E @@ : H>;<@ :C $@@ :< <>;E :<a '> B$< =:CC;C Y * ('E>@ 'H ' M M ' *9 :
>; :@@ : :C > ' $B @@[: s= ; : D> :($DD>; ('6$@=:< >>= C$H 8 :<:@ '
<>;F : L ; ' : @; E > L ; : a =:8 : t$ C9>< 'H : D>$ '@ @: C =:< 9$ '
=: @$ $8 B : ' : '$E> ' :8 H<; [' ; F 9 :<J ::C 'E>@ 'H ' MON

#'" D JA ' EIA EAADAJ G 'AAJ 'G AE > A 'G'A IG NI '
516 FE G F""K'A A K'DF''M GD'A A K'CG 'A 'GM IA'CG ' K
`'A IG G "J EA '' IA 'CF EA $IA IFCOB A E A A
NG ' GNA IA ' G I 'J AJ GM IAD ' EGDA " NI ' M A"J '
P ACAE ' F'J F'MA ' ECG A GM IG EA ' %G I A"" A' ' GMM
G F JE IA %G JA 'FNF '' IA A'I E G '' PAGP"A A A'F '
"FE 'NF IA 'N G'HG '' I D/F'J 'G 'CF 'N G IA CGGPAJ
P '' + 'BF ' IA R AA'' JF AJ IA 'MF A F'J AEG" AJ
G FJ F'CA FNF 'E ' IA =G'MAJA F A -G JE) '' $I EL
JFK DG ' 'N EIA IFJ AFCIAJ + 'BF \ G'' #F JFK
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DA'' IG '' G'A FK G ' F'G IA ' EIA IFJ EC FPAJ GL
NA IA ' %G I A""H 'AJ IA ' F ' >FJJ 'N G'' I'E (L
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PFEEAJ IA ' NI ' $IA 'A(' JFK IAK DAF'' G BA
'' 9J 'B NI ' IA A IAK IGPAJ G M 'J IA CFE "A E ""
IA"J MG ' IAD BK # ' `FDAE %F"MG

>AF 'N IF ' IA R AA'' FE CGD 'N ' IA -G JE DFJA
P IA ' D 'JE MG ' IA E NN"A ' $IA EFDA #F JFK
BAMG A D J' NI ' IA DPA E EG 'JAJ G IG EA ' %K G
G C"GCO G'' IA # 'JFK DG ' 'N IA '" "A F DK FE G''
IA GFJ G T EEA"B NI \ G IG EF'J DA'' DG A G '
"AEE \ FBG ' FE DF'K FE A A ' I IA R AA'' F'J
%G I A"" ' $IA JF '' FE C"AF ' F'J C"G J"AEE ' IA E ""
GPA' 'N GM F IG ' ` 'A JFK ' FE IAK G 'J F"G 'N
IA F""AK 'JA ' I E #AF ' $IA ' BF''A ' FE
EP AFJ BA AA'' t G EPAF E ' $IA M N A GM F JAFJ DF''
FE G NI ' PG'' ' "K 'N 'JA ' F AA/F EI ' "FK
G'' IA N G 'J ' F B GOA'' B F'CI ' F'J F CI "J G'' E
O'AAE F ' E E JA E A CI 'N E IF'JE G IAF A'' F'J
C K 'N X ` JNA F'J A A'NA DK CF EA) I' -G J

#G '' IA N AK" NI ' IAK E AP 'G'/F 'M A IAK A A
F ' IA G"J B JNA F ' T EEA"B NI ' F'J IA A IF" AJ G

B AFOMFE + = GC 'IA FBEA'CA GM PGE A '
E C G'E CG "J 'G CGDD I DEA"M BK FCCGDPF'K 'N
IAD B IA MG""G AJ F F J E F'CA F'J I "A IAK
A A F 'N CFDA P F'J FNF ' G" ' AA AJ G DAJ F A
* IF A A IFJ BAA' IA #G A A N' E MF " E IA EF J
IAK A A BG 'J G ADADBA IF EIA &/ IA
#G A A N' E IAK IFJ 'G FCCAP AJ I E P A G E
G A AE IA CG "J 'G F'E A IF IA=G GM@ F'CA
D NI JG F'J C G K D NI BA FE ADBF FEE 'N G
IAD FE JAMAF

>FJ IA -G JE EIG ' F'K AEG" A ' A' G'E GM
I G 'N IADEA" AE PG' @ F'CA I E "F'N FNA G "J
JG B "AEE IF A BAA' A K J MMA A' / B IAK IFJ EAA'
' BG I @ F'CA F'J 9'N"F'J F DAF' JAE A G DFOA
PG" CO FJ F' FNA G GM IA J MM C " AE F'J I
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M"AJ I

$IAK AP" AJ CG"J"K IF IA A A B G DGJAE
BK I CI B"GGJEIAJ CG "J BA F G JAJ M IA R AA'
G "J FBF'JG' IA A CI IGD EIA CF""AJ IA I EL
BF'J IAK A A AFJK' G A ' G IA F""AN F'CA
M %G I A"" G "J DF ' F ' I E G ' CIF""A'NA A IA
F"G'A G I FE DF'K EACG'JE FE IA P"AFEAJ IAK
G "J P GJ CA G' IA E JA F' AQ F" ' DBA IG
A A AFJK G M NI ' IA Q F A"

+ = GC FPPF A' "K CG'EC G E IF 'A IA GM IAEA
F" A 'F AE G "J BA FCCAP AJ FEOAJ M IA A FE 'G
I J A(PAJ A' $IAK EF J IF IAK CG "J I 'O GM
'G I 'N A"EA $IAK G "J F IA BA B AJ F" A IF'
"AF A IA 7 'N E D JA 'A(FD 'AJ ' G F'J 'L
P ' EIAJ $IA 8GJ GM >AF A' G "J A A'NA PG'
IAD M IAK EF A E ""

+ = GC FEOAJ G BA F""G AJ G NG MG F J G
IA R AA' $IAK A A DGE ' ."'N G CG'EA'

=> P(' $IAK O'A ' 'G IF IA D NI EFK G JG >A P GL
516 D EAJ IF M IA MF "AJ G PA E FJA IA G DFOA EGDA
CG'CAEE G'E IA G "J 'G ADF ' I IA $IAK E "
IAE F AJ B F "FE TF "F'J ' A PGEAJ F'J IAK
K A"JAJ $IAK NF A I D F MA IG EA MG F' AECG F'J
BFJA I D NG G IA R AA' G NG IA A IA G "J
TF K # F G' IA 'A E IF IA -G JE A A
FJ F'C 'N IFJ BAA' AF "K ' IA M A"J F #A G' >A
PA' 'G'E CG "J BA EAA' M GD BAKG'J IA B JNA G
D "AE J E F' 'G' IA B G 'GM IA I."E G F JE ! AE G'
!F'E G' IA N G 'J G' I CI IA 9 'N" EI F DK IFJ
E"AP A' K KAF E BAMG A IA A A GM IA BF "A GM
! 'O A ="A NI + = GC FE "AJ ' G IA P AEA'CA
#IA FE E 'N G' F E G'A ' IA J AEE I CI EIA IFJ
BG G AJ F + 'BF >A G"J IA IG G "J N A A
IA 7 'N GM @ F'CA F'J IA R AA' TG IA P IAF IA
EE A F I CI EIA IFJ F AJ I IA E BHAC E >A
G"J IA IF IA -G JE IFJ EF J F'J DP"G AJ IA G
CG'E JA IF EIA FE JG 'N
#IA EF J M A CA"K IF IA -G JE A A NG 'N FNF 'E
IA G ' P" NI AJ G J $IAK IFJ IADEA" AE FCL
Q AJ IA 9F " GM IA C DA GM I CI IAK 'G
FCC EAJ I D $IAK IFJ IADEA" AE ACGDDA'JAJ IA
G DF K I D $IAK EIG "J E BD F'J E A MG DA CK
F'J EIA G "J IA' ACA A IAD BFCO ' G IA MF G
* I "A EIA FE EPAFO 'N %G I A" CFDA P I I E
E A + = GC EF" AJ I D J E F' "K B JAC" 'AJ G
FOA I E IF'J > A JADF'JAJ ' F "G J G CA IF F"
IG A A E F'J 'N G 'J D NI IAF IA IA FE
FNF 'E I DEA"M IF IA -G JE A'D K FE J AC AJ
+ = GC AP" AJ ' IA EFDA I NI G'A IF IA
-G JE IFJ FEE AJ I D GM IA "GKF" K G IA R AA'/

' '. /!' >;C C$@;BC8:C' $C':' :' C:<% ' ! ' '! '38
+7: H<:C: $ ' H> ' H>;< :8B<$C(-9$ VG"

F'J IA FJJAJ J GPP 'N I E G CA X GM IA DG F"A'D K => P(D
G I E -G JE I P 516
NF ' %G A"" FEOAJ IF ' I IA IFJ JG'A G IAD
\ IAK A' AJ I E A"A F G' \ B MG 'A FE F M A'J
G F"" IG IFJ IA EP G FCCAP IA MF G E \ F'J
IA A FE 'G G'A GM IAD IG G "J 'G N"FJ"K BA
' I E P"FCA % IA JAE AJ 'G B"GGJE IAJ IA EF J
F'J E 'CA I 'NE A A CGDA G IF PFEE M IA -G JE
G "J P GJ CA F CIFDP G' GM E MM C A' F'O IA G "J
F A I E G ' P "ANAE FE IA R AA' E CG'EG F'J
G "J DAA I D ' IA M A"J/ I E CF EA FE NGGJ F'J
8GJ G "J BA G' I E E JA

TF K# F M D 'N F'J CIFM 'N IA A B GOA ' X$IA
Q F A FE IA E EIA C AJ X$IA -G JE EIG "J K A"J
G K IA CIF'=AE ' F BF "A

X$IA' IA A E 'G 'AAJ MG M IA PF "AK EF J %G I
A""/ X F'J KG 9(CA""A'CK DFK M KG P"AFEA BA" OA
IA A' GK IG AJ G DAJ F A BA AA' #C P G F'J
>F' ' BF" >A CG "J JG 'G I 'N F'J E GGJ FE JA F'J
EG 'AEEAJ IA DGE EP"A' J J EPAC FC"A ' IA G "J

+ = GC ' I E FCCG ' GM IA ECA'A C AJ AJ %G I
A"" I BAF 'N I DEA"M" OA F DF' F'J I J EP"FKL
'N M 'A Q F" AE FE F CGDDF'JA >A IG NI IF M
I E MG""G A E A A A G I D IA D NI FM A F"" CGDA
G C G G E G F E 'N"A 'GB"ADF' FE G' I E E JA/
B IA F IA NF 'AJ IF' "GE BK IA FBEA'CA BACF EA
IA CGDDF'JAJ F"G'A $AF E GEA ' G TF K# F E
AKAE FE + = GC GGO "AF A GM IA ' >A GJA BFCO G
IA -G JE F'J G"J IAD IF EIA 'E E AJ G' IA
"FK 'N JG ' IA F DE $IAK EF J FE DPGEE B"A/
F'J IA IJ A M GD IA M A"J

$IA G PF AE A A BK I E DA C"GEA GNA IA
$IA =G'MAJA F A MG CA FM A C GEE 'N IA A IFJ
AJNAJ F"G'N IA DAFJG E G F JE +F"OA I G' IA

'V ' :$C :< ' B$ J ' B:?><:' ;< F' >' 9:' 9 @@C' $ =' 9:
516 E AAP 'N' G 'J' IAK' GGO' P'F'PGE G''G'' IA' JNA'GM'
; :' T =G E"F'J' I' IA'E '' PG'' IA 'BFCOE' '' M G'' GM'
IAD' FE'F'IP""G ' X' G'G' I AA'C GEEBG 'EIG E'FC GEE'
F'J'G'' IA'GPPGE A'E JA' IA'R AA'E'" 'AE'CG A 'N' IA'
E"GPAE'F'J'C AE'GM' IA'P AEA''PF O'F'=F BA K
>A A' M GD' A"A A'' G C"GCO' "" G' IA' F D AE' AL
DF 'AJ'CG'M G' 'N'AFCI'G IA '/ AFCI'E JA'BA 'N' '""L
'N' G'"GEA' IA' FJ F' FNA' GM' IA' N G 'J'F'J' JAECA'J'
G' IA'F FCO' $IA'JFK' FE' ' A'EA"K'IG ' %G I A"" E'
DA''EIG AJ' 'G'F'(A K' G' M NI '/ F'J'EGDA' 'A'CFEOE'
IF 'N'MG""G AJ' IAD' M GD' #A G''FE' IA'JFK' G A'G''
IAK'BANF'' G'MF"" ' G' IA' AF ' G'J 'O f' $IAK' A A'
G JA AJ' BFCO' G' IA ' F'OE'/ B ' IAK'PF J' 'G'F A'L
G'/' F'J'F ''"FE'' 'G' DG A' IF'' I AA'G'MG ' I 'J AJ'
DA'' ADF 'AJ' FBG ' IA'R AA'' $IA' I DG ' GM' IA'
DA'' FE' A JA' "K'CG"J' $IA A' FE' F'NA'A F'MAA" 'N'
IF ' IA' Q F A'' FE' PA EG'F'/ IF ' M' IA' + OA' FE'
"" 'N' G'M NI ' ' G ' F"G'A' IA A' FE' 'G' AFEG'' IK'
IA' EIG "J' 'G' BA' F""G AJ' G' JG' EG/ F'J' F ''"FE ' G'
@ A'CI' NA' "ADA'' A'' FC GEE' G' "AF '' IA IA ' IA'
-G JE' G "J'E "" FB JA'BK' IA 'P GPGEF"
$x"" BF J 'A' IG' IFJ'BAMG A' FOA'' P' IA'CIF""A'NA'
I CI'%G I' A"" P ''AJ' FNF 'E' IA'$G"BGG I'JGG ' 'L
E F' "K'E APPAJ'MG F J' $IA'+ OA'DFJA''G'J M%C " K'/
B ' IA'R AA'' CG F J"K'MG ' I D' IG NI'MG ' IA EA"M'
'CFPFB"A' GM' MAF ' MG 'J' F'' A(C EA' ''$. BF J Q A E'
F'O' X'>A' FE' MGG' DAF'' F' DF' ' EIA'EF J' X' G'M NI '
IA ' I EBF'J

' '3 $;@ <:'D>;C ['E> $ 'L;:' >;C' ! ' '3 * ' 5 $ $' G"'
$E > C' @ $=E$ $ F:'=:' D:C' : =<> ' 'P' :45' $I E' P AC EA' JAEC P G''
@I' 8 $<D9: ' : ' F$ F : ' ; :' $; <:' A'JA E' IA'EPG'AFEK' G'IA' JA' M AJ'
8 > 'a'=:;7';' <> C' :D C'= $<B$@@$ <:' -' 3+
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%G I A"" "F ' FE IA FE G "J 'G EIG IA I A =' !(D
MAF IA ' ' IA M A"J F'J ' IA R AA' E P AEA'CA X -A 516
TG G'' DAA I D IA' IA EF J `'A 5
TG G'' JAE AJ 'G I 'N BA A TG G'' BA A IF''
F'K G'A O'A %G I A"" E N " / MG %G I A"" IFJ AJ
G DFOA I D F PF 'A GM % -G J - 'JEFK C"AF
I DEA"M GM F'K E F '' GM MF ' CGDP" C K '' IA C DA
C"F DAJ P ACAJA'CA FE F 'AF A O 'EDF'' GM IA JAFJ
7 'N TG G'' NF A P"FCA - 'JEFK E APPAJ G
BAMG A IA" 'AE X P FKAJ G'' I E O'AAE IF 8GJ G "J
P AEA A IA ''GCA' F'J P ' EI IGEA IG IFJ EIAJ
''GCA' B"GGJ F'J IA'' E PPAJ GMM I E F DG
TG G'' NF A I D IA I NA JG B"A IF'JAJ E G J GM
'N E %A"" IA =F / I "A %G I A"" DP"G AJ TF K
F G CG'EA' IF IA EIG "J 'JA FOA IA CGDBF
#IA G '' I F IG EF'J MAA" 'NE IF A F'J FNA
F'J A G MG IA I EBF'J E EFMA K FN AAJ F'J FNF ''
AM EAJ F'J IA'' C AJ PFEE G'F A"K G IA N G P IG
A A G 'J IA IF X M IAK A A DA'' IAK G "J NG
JG ''F"" PG'' IA F G E F'J E AAP IAD M GD IA
I "" E JA

% IA "J G JE MA"" PG A "AEE '' IA "G'N JAL
"FK IA G PF AE IFJ ' A D (AJ F'J CG' A EAJ M AA"K
$IA DA E GM IA Q F A" A A GG A"" 'JA E GGJ
$IA G JA FE N A'' MG F'' FJ F'CA '' IA R AA' E
F DK B ''G F DF''E AJ/ F'J EIA FE MG CAJ G MAA"
I IA CFEA FE JAEPA F A @ 'J 'N %G I A"" J J 'G
CGDA MG F J G I 'J AJ =G'MAJA F A IG EA "AJ BK

' *9 :' ' C9>H' >?' '>CC' ' 9 C $' 2 :\ $', @@ :' :' = :C <> ' $; <:' D9>C:' L ; :' = :'
?: D:' >?' %; : : ' + $< C' / > >; < 'C$ C' @:C' ?$ <:' D> 8B$ <:' ': 'H:<C; $=$' + > \
9$ ' C9 :' H<:E: :=' $ ' : F$F: 8 : ' C : ; <' @:' 2 ; D' H@; C : ; <C' ?> C' $' D:' ?$ <:'
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. > 9 F' D$ ' 9 :' 8 ><:' ; <; : ' *9 :' P' :41
6$H $ '>?' D9J: 9' C$ C' = C D @

7 OF"JK GM 8 F'NA C GEEAJ IA IG""G G IA NI FE
516 Jþ G C GMM I E A AF # "" I 'O 'N G'"K GM %G I
'A 65 A"" E EFMA K EIA EA' F DAEEFNA I F I A M"FN G
JAE A 8 F'NA G CGDA G IA

>A FPP GFCIAJ F'J O'A" F IA MAA #IA FEOAJ
PFEE G'F A"K M FE DPGEE B"A MG IA -G JE G BA
ACG'C "AJ G IA I EBF'J 8 F'NA F'E A AJ IF IA
-G JE A A A GCFB"K JA A D 'AJ G FOA I D G J A
% N"FJ A'G NI FE IAK G "J BA G O "" %G I A"" EIA O'A A"" IF IA A A EGDA GM IAD G IGD
FE F P EG'A IA G "J BA JF'NA G E"K 'CG' A' A' / EIA 'J CAJ 8 F'NA G NG FNF ' G CG'E " I E M A'JE/ F'J IA A 'AJ P AEA' "K I F DAEEFNA IF M IA
R AA' G "J "AF A IA 9F " F'J A ' I IAD G
9J 'B NI EIA G "J BA A"" AF AJ F'J IA + OA
D NI NG IA A IA P"AFEAJ/ B EIA D E CGDA G F'
DDAJ F A AEG" G' G G "J BA GG "F A FE IA
A A' 'N FE N G 'N G'

$IA -G JE A A EAA' DG ' 'N IA IG EAE/ IA DA'
FE F'J P APF 'N G C GEE IA IG""G $IA R AA' E
MG CA IFJ BAA' F"" JFK DA" 'N F FK F'J FE 'G AL
J CAJ G F IF'JM " GM IA + OA E PA EG'F" MG""G A E
9 A' AECFPA A(CAP I IA PA D EE G' GM IA A'AD AE
FE BACGDA DPGEE B"A/ F'J I F B A A'CI GM J EL
FPPG ' DA' IA R AA' EF IF EG D E BA $IA A
FE 'G I 'N "AM B G B J I D MF A A"" >A BFJA IA
ADADBA IA P GD EA G BA A G I D #IA 'N
I E IF'J F'J I F "G 'N PFEE G'F A O EE IAK PF AJ
%G I A"" EP F'N PG' I E IG EA F'J NF""GPAJ GMM I
I E EA F' E 'P E AJ $IA R AA' ' 'N G 8 F'NA
EF J EIA FE AFJK G NG I I D/ F'J ECG 'M "'P G J
JAM F' FE A A EIA F""G AJ I D G CG'J C IA ' G
IA " 'AE GM IA =G'MAJA F A GB"ADA'

#IA FE ACA AJ BK TG G' F'J > DA I IA

E F E N'E GM IGDFNA #IA AQ AJ IAD G FOA IA ""
G IA >FD " G'E IG A A BA" A AJ G BA ' MG CA ' 516
IA 'A NIBG IGGJ TG G' EF J B AM"K CG "J 'G ` 'A
BA >A G"J IA IF EIA FE 'G ' IA P GPA P"FCA
FDG'N IA A F'J MF IM " E BHAC E #IA MA" IF
EIA FE F P EG'A F'J IF IA 'A IFJ C"GEAJ FBG
IA $IA M E MF ' GOA'E GM AEPAC I CI IFJ BAA'
PF J G IA EGG' J EFPPAF AJ E EIA PFEEAJ BA AA' IA
F'OE F "G'N M A CA C K GEA G GM IA C G J X% '
IA IG A] X% ' IA D JA AEE GM IA I EBF'J]
$IA R AA' EI JJA AJ F IA IG B"A EG 'J/ 8 F'NA
F'J G IA E GJA P F'J JG ' E O 'N F IA EPAFOA E
I IA M"F GM IA E G JE G E "A'CA IAD/ B
G 'G P PGEA/ IA PA' P PFEE G' GM F IG"A PAGP"A FE
B E 'N G E EIA FE BG 'A F"G'N IA BF' 'A I
+F '"AK E BGJK G' FE M"F ' AJ BAMG A IA AKAE
#IA IFJ G CIAJ 'G MGGJ E 'CA IA ' NI BAMG A XF'J
CG "J ECF CA BA IA"J PG' IA EFJJ"A MG N AM F'J
MF ' 'AEE/ B '" OA EGDA M A CA F' DF" B G NI G BFK
F'J ' IA C" CI GM IA IG 'JE EIA E "" MG NI F'J
E NN"AJ X A(PAC AJ G A J = GC X IF IA
R AA' G "J IF A BAA' NA' "A I IA -G JE F'J
IQ A AJ G PFC MK IAD/ B G' IA FK M GD IA
M A"J EIA F"OAJ GM 'G I 'N B IF'N 'N F'J C C MK 'N
IAD F"" $IAK P G AE AJ IF IA ' A' G' IFJ
BAA' G'"K G P ' EI %G I A"" MG I E C DAE #IA
EF J IAK EIG "J 'A A JG I "A EIA" AJ - 'JEFK
FE IA EPAC F" GBHAC GM IA M K X8 A DA KG

 E .
 X M A IA 'CGD 'N ' G IA -G JE
PG' # 'JFK ' IA M A"J IA 9F "GM
IG" E CGDPF'K I' IA -G J'GM
$ "" BF J 'A E F'J'G IA E IG A A'GM
IA G I'PF E I'G'A G CA'C AJ
' IA IAF 'N I% D IA IG Ap

I CI' D CI' FDFUAJ F'J N A AJ
IA F'J B AJ IA AF E FDF ' \
 ' ! `` 'A'UG' "
f + '= GC G'=F IA 'A'JA'T AJ C '
'A' 6 6 5 $ G"' 'P' : 4
g # ' `GI'' @GE A G 9" UFBA I '
` 'A' 34 "

/ $ 3 $% 4 & +

># IF'J DK"G J EIA EF J G I D FE IA GJA BAE JA IA
X%K I E IF'J EIA E G A FE IA NF b X BK I E IF'J
` 'A I CI E'G ' ' D 'A ' "" IF A KG ' IAFJ MG ' I E
F'J IA AGM FEE A KG ' ' #IA " 'NA AJ G' IA GFJ
IA A A 'EIA CG "J "GGO 'N MG ' IA >FD " G'E G AEC A
IA / F'J IA "G'N ` 'A A A' 'N FE N G 'N JF O FE
IAK B G NI IA F "FE ' G 9J 'B NI #IA FE '
IA EFDA "J CGE DA B X IA MFCA FE 'G J EM N AJ
I J E F'J AF E $IA C G J FE EG JA'EA ' IA
E AA E IF IAK CG "J B DG A F F MGG E PFCA '
E 'N"A M "A F'J M GD F"" IF C"GEA PFCOAJ I G'N F'J
M GD A A K E F F'J 'JG IA A F 'AJ G'"K KA""E
F'J C EAE F'J DF"AJ C G'E $I G NI F"" EIA FE
MG CAJ F"G'N IA GFJ "AFJ 'N IA PFE 7 O 4 @ A"J
I CI E "" "FK CIF AJ ' 'E " GJN 'N IFJ
BAA' P APF AJ MG IA F IA ! G GE E IG EA F IA
CG 'A GM IA 8 FEEDF OA # PPA FE G' IA FB"A/
B EIA FE G'A GM IGEA I NI B"GGJAJ PAGP"A IGEA
BGJ AE JG 'G FEO F A' G' IA' IA EG " E E CO #IA
JAE AJ G BA FOA' G IA GGD 'E F' "K/ B A A'
P FCK FE F M E JA' AJ IA $IA EI AO 'N DGB
C G JAJ G' IA E F E F'J MG CAJ IADEA" AE ' G IA
A K P AEA'CA "" TF "F'J IGD EIA EF ' 'JA IA
'JG F'J CF""AJ G IA"P IA CFDA P F'J J G A
IAD G $G TF "F'J EIA CG "J EPAFO FE G G'A IG
IFJ B "F A"K G AJ I E" MA G IA * IA' IAK A A
F"G'A EIA FEOAJ I D ' FNG'K IK IAK IFJ G ' IA
M GD IA I EBF'J I IGD EIA IFJ "GGOAJ G" A
F'J J AY > A G"J IA IF IAK A A JG 'N IA ''G
'H K IAK A A CG'E " 'N G'"K BG I BA IG'G F'J

' + K' G' =AC "' ` 'A' 0 \ / A' DA' ' J ' DG'JA \ + ' ! ' '
' ! ' ' ' ` 'A' 6' 5 '
' ' AC' "A' Q A"" A"" A' PA' EG ' A' , 9 ' G"'
A ' DG ' F AC' "A' P" E' N F'J' CG'

IA ' A AE X#IA J J 'G O'G IA + OA IA EF J :# 'CA IA P A A'JAJ DF FNA I I D IA IFJ FNF ' F'J FNF ' FEE AJ -FJK %G I A"" IF EIA G'"K FE I E MA F'J IF IA R AA' FE I E CG'C B 'A/ IA EF J IA CG "J EIG IA %G I A"" E G ' "A A I CI CG' F 'AJ IA G JE % 'G I 'N I CI IA CG "J EFK P GJ CAJ IA "AFE AMMAC / IA G'"K JAE A GM IA -G JE F I E DA FE G FOA IA M GD IA J AFD F'J 'J CA IA G EFC M CA IA A CI G IGD EIA IFJ F FCIAJ IA MG 'AE/ EIA IA EA"M I F JA G G' I CI IA HG ' C DAE CG "J 'G JAP A GM BAF K G"J TF "F'J F "FE IF EIA G "J BA CG' A' G BA 'AJ FJ M I %G I A"" ' F BGF PG' IA GCAF' G NG IA A IA MF AE D NI CF K IAD

TF '"F'J IA' IA"AM IA R AA' IFJ F CG' A EF G' I J = GC ' I CI IA EAADAJ G I 'O IF M EIA G "J 'G N A P %G I A"" I E FE IA BAE CG EA G BA P E AJ I IA #IA D NI NG IA A EIA *G "J IA EF J P G JAJ FE 'G G @ F'CA + = GC AP" AJ IF M EIA A' G @ F'CA IA 7 'N G "J H JNA IA JAAJE FE IAK JAEA AJ MG IA ' IFPPK I FE B GG E A"K P G AJ f $IA DL BFEEFJG G "J IF A BAA' A"" P"AFEAJ IFJ IA R AA' %G I A"" F'J ! 'CA BAA' EA' G @ F'CA F"" I AA GM

+A # " F FE A' 'MG DAJ IF IA + OA FM A I E DF FNA EPA' EA A F JFKE ' AFCI AAO I IA MA IF IA IFJ J G CAJ $ EF' Q A A %G I A"" GJF wF AE FBF F"L N 'GE J FE JA "F EADF'F CG' "F D NA CG' Q A IFB F IACIG A J G C G \ . 5 0 O +A # " F IFJ I E G =F IG" C CG AEPG'JA' ' #CG "F'J F'J I E G JE IA AMG A IF A F' 'L JAPA'JA' F" A

fX - F'M ' JA "A E P GPGE M Q A AE F' AJ C A A' "A(AD b G A""A AE G GA""A 'A JADF'JG E 'G' Q "U "AE D EEA' G E JA ('JF'E 'F A PG "AE A' GKA "y' G "F MG 'A "AE CG'J G \ Ir M

X `A " K'M C U F 'CG' F A Q A HA G "J G E Q "U K'M EEA' A '"A ? GK A'H NA G 'CGD DA "A MF C '"A Db b CF "AE DF"A A ('MF C E EG' GP P G AE% ! ! DA 6' $nn 9, G"'

/ $ 3 $ % 4 & +

' IAD/ IA R AA' G BA EI ' P ' F CG' A' %G I A"" G BA IF'NAJ F'J IA ! 'CA G BA AJ CF AJ '@ A'CI EKDPF I AE > A G"J TF "F'J IAK G "J M 'J IF JA G OAAP IA R AA' IF' G FOA IA M IAK CF""AJ ' IA 9'N" EI G FEE E IAD IA 7 'N GM@ F'CA G "J 'J EP FB"K FOA IA R AA' E PF TF "F'J CG "J G'"K AP"K IF EG MF IAK IFJ IFJ 'G ' A"" L NA'CA I F'K MG A N' !G A F F"" $IAK JCZY AJ G'"K G BA "AM G IADEA" AE F'J IAK CG "J EA "A IA G ' Q F A"E M I E DFE A ' A MA AJ IA' 'JAAJ IAK G "J BA J A' BFCO PG' 9'N"F'J B IAK G "J MF F IA EAA BG I IA ! 'CA F'J IA AF"D 'JA IA GPA' P G AC G' GM@ F'CA

@ F'CA AP" AJ J = GC G "J ECF CA"K FOA PF F G AJ"K FNF 'E IA R AA' B @ F'CA G "J "AF A IAD G JG FE IAK P"AFEAJ P G JAJ IA 9'N" EI A A 'G F""G AJ G DAJJ"A

+ = GC O'A FE A"" FE TF "F'J IF MG JAL I G'AJ P 'CAE IA A E B G'A EFMA P EG' F'J IAEA G J D NI AFE "K IF A BAA' TF K # F E JAF I F F' > FJ BAA' EG EIA G "J IF A MF""A' ' IA D JE GM IA MF " E / I F PA A AJ IA G ED I CI G "J IF A NG'A MF G DFOA IA G "J MG N A IAD X + 'N F"" IAEA ECA'AE EF J IA =FP F ' GM 'CIOA I X ' 'A A EF DF' DG A IAF K F'J CG FNAG E IF' IA R AA' #IA JAE AJ 'G I 'N EG D CI FE G M NI G IA Q F A' ' MF BF "A I IA -G JE -AM F"G'A G B GGJ G A TF "F'J E E G K IA PGG C AF A

; : P ! ft X `A 'A A " 'PG ' 'G B" A Q A J F' ' G AE' "AE' DA' bAE' PF ' CKJA F' ' DA' G' 'bAE' HA' 'A A E' HFDF E' IGDDA' JA' P" E' N F'J' C A ' A ' JA' P" E' N F'J' CG FNA' PG ' DA A' 'A A' AP EA' F' A(AC G' ' JA' BF F ""A' Q A' "F' ? AK' A' JA' EF' PF ' ' CF ' H AE DA' Q A' EG' ' P 'C PF" B ' AE G ' PG ' JG' ' A ' "F' BF F ""A' F (' EA N' A E' JAEE E' 'GDDAU % " ' ' = .P / ' ' 5 ? ' G" '

G A F MA PFEE G'F A G JE GM FMMAC G' G %G I A"" => P(' I CI EIA B BAJ F BGK G CF K G + 'BF $IA BGK 516 GGO IA DG'AK F'J CF AJ IA 'G A G IA -G JE E JFK B GOA ' F M AE I EPFED GM M K EIA M" 'N GPA' IA 'JG F'J I IF F"" "GGEA F'J BGEGD GPA' EIA EI AOAJ MG EGDA M A'J G CGDA F'J EA IA M AA ' F'E A IA BF' 'A FE FNF ' JF'N"AJ BAMG A IMA F'J I 'N IA A EIA CG "J 'G "GGO G IG A'L CG ' A 'N E A B"A JAE N' #IA CG "J G CI 'G MGGJ FE EF J IF EIA IFJ DFJA F G G AF 'G I 'N "" EIA FE FNF ' I IA + OA GDF' IG EF IA F IA 'JG M" 'N EGDA B A F ' E F IA #IA 'AJ A'GDG E"K X I AF A'AJ G CF EA B D IA G ' F'J E"GCOA' IA M A I IA B"GGJ GM E 'IFB F' E $I E BAF 'N FNF 'E IA BF E GM IA CFNA EIA PFEEAJ IA AF K IG E * I "A EIA CG' ' AJ ' E CI F I DG IF FE G BA JG'A I IA Y $IA"A A G %G I A"" FJJAJ M A" G IA F" AFJK A(C AJ PFEE G'E GM IA -G JE ' DAJJ" 'N I EG AL A N'E MAF E A A D (AJ I CG'E JA F G'E GM PG" CK/ G EA ' F DE FNF 'E IA P 'CA M MF "E E JAF I/ F'J IA A FE E F""K B F EIG EI M MG E CI JF'L NA G E P EG'A E) 'CA BAMG A EIA IFJ E" PPAJ I G NI IA -G JE IF' JE $IAK CG "J 'G EO E CI F D EFJL A' A F EACG'J DA F'J IG NI EFMA G' IA E JA GM @ F'CA IAK O'A ' 'G IF G"GGO MG M GD 9" UFBA I) 'CA DG A IAK A' AF AJ IA G FBF'JG' %G I A"" % X EIA G "J FN AA G 'G I 'N IA ABK IA + OA EIG "J BA ' JF'NA / F'J ' F CG 'C I CI FE IA"J G' TG'JFK G CAE A A F" AFJK F EAJ G DFOA F E M A'J I IA #IA IFJ CGDD AJ C DAE ' FE EF J

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TG G' G I E C AJ ' A MA AJ F '"AFE G P G FC IA CF FE GPIA "" IAK IFJ DFJA'F M IA AMMG G FDA IA EP # #GDA G'A P GPIA CF""K EF J IF X FE TG G' FE F E FKA GM H E CA IA EIG "J MAA" IA H E CA GM 8GJ E OA I D I IA E G J/ B I E G ' CG'EC A'CA FE 'G EG C"AF ' ' IA B E 'AEE GM IA D JA IF IA CG "J F""G IA IG"A A NI GM G BA E AJ G' IA R AA'

FE 'ACAEEF K IG A A G JA A D 'A PG' EGDAL I 'N MG IA PAGP"A A A BACGD 'N MFE 'CG' G""FB"A $IA -F J GM %"FCOFJJA G'A GM %G I A"" E GMM CA E FE B G NI ' G 9J 'B NI' ' IA DG ' 'N >A IFJ BAA' FOA' F EAF ' 'F ADP 'N G AECFPA M GD + 'BF ?APG EF J IF IA FE G'A GM IA D JA A E F'J FE IA FE J FNNAJ I G NI IA E AA IA DGB EIAJ F I D I'O' AE F'J E G'AE F'J FE I IA N AF AE J MM C " K IF IA FE B G NI F" A ' G IA NFG" M IA R AA' ADF 'AJ ' IA G ' IA IG EA D NI BA B GOA' ' G F'J EIA D NI BA G ' ' P ACAE 7 ' GEE G' IA BG JA E GM @ MA ' IA DGE ! G AE F' J E C GM #CG "F'J MF F FK M GD 8G JG'E G >FL D " G'E G =F IG" C > NI"F'JA E "FK IA F A E GM -GCI"A A' DFJA DDG F" ' #CG EI I E G K BK IA A A' E GM IA MA ' 'A(DG' IE $G F JE IA D JJ"A GM IA "FOA IF"M F D "A M GD IA EIG A FE F' E"F'J FBG F' FC A ' 'A(A' 'G' I CI F CFE "A E GGJ BA"G'N

'N G # * "" FD +G N"FE IF"M B G IA G IA 9F " GM * FK >A A 'JA IA CIF NA GM IA -FJK GM -GCI "A A' G'CA IA D E AEE GM IA MF IA IA -G JE JA A D 'AJ G DD A IA #G A A N' "" IAK CG "J AEG" A F "A E A G' IA MF A * IA' 'MG DAJ GM IA ' A'L G' TF K# F M A CA"K CIF NAJ IAD I AFCIA K #IA IFJ P"FCAJ IA EA"M ' IA IF'JE EIA EF J 'JA P GD EA GM MF AF DA' F'J IAK A A B AFOL 'N IA P" NI AJ G J FE CG"J"K F'E A AJ IF EIA GG IFJ P GD EAJ G EAPF F A IA EA"M M GD %G I A"" F'J G' IA PFE ' NI EIA IFJ FEE AJ I D GM IA 'L MF " 'N FMMAC G' #IA D E E BD G BA AE F 'AJ "" EIA CG "J IA B G NI G EGDA BA A D 'J E 'EFMA G ADG A IA BK JFK" NI %"FCOFJJA IFJ E M H E CA G E M 'H E CA >A FE AJ EA' A'CAJ A(AC AJ F'J Q F A AJ F"" ' F MA IG E P G AE 'N I E ''GCA'CA G IA "FE H B IA C UA'E A A ' 'G I DG G J EC D 'F A M A JF O G' TG'JFK A A' 'N IA R AA' FE FOA' JG ' G >G"K GGJ $IA E AA E A A M "" FE A A F'J F N F J GM :44 DA' *FE BF A"K E MM C A' G OAAP GMM IA IG " 'N PAGP"A #IA A' G' MGG BA AA' IG" F'J TG G' FD JE A" A 'N C AE GM X% ' IA] B ' IA] EIA E 'G G IK G" A 7 "" IA] J G ' IA] =G "J IA DPB IF A AFCIAJ IA EIA G "J IF A BAA' EA' E M "K I F E G'A FBG IA ''ACO ' G IA G -GCI $IA PF"FCA FE 'G EFMA A A' MG A ' NI ' F' IG G G EIA FE CF AJ G' G -A I F'J IA'CA FC GEE IA F A G % ' E"F'J/ F FP J JA GM A' K D "AE B G NI IA IA'CA G IA E"F'J MFE L 'AEE IA A AF "K G' $ AEJFK _EG E M "K IA G Œ FE

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FE FBIG AJ F'J " PA'JAJ/ IA 'GB " K F'J IG"A
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F"" PF C PF' GM EG ' G IK F'J IG B"A F C DA
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EIA I E MFCA $IA A IFJ BAA' X 'G DF' 'A GM H E
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PAF AJ F IA BF B IA CFDA IA A X FCCGDPF' AJ
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IFJ BAEA IA TFHAE K E FK GGO F'J F EIAJ IA
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G ' P JA >A IFJ I E P A A'JAJ G DF K IA

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$G JA" A IA EG A A N' M GD N'GD 'K G P AEA A
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IAK A A CG' A' G E E F ' IA EPG GM PA H K 'L
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IF A'BAA''A(PAC AJ' G ANF J'IA 'D EMG 'AE' I' 'J ML
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BAA''IA 'PA EG'F" MAA" 'NE'BG I'=IF "AE'F'J'=F IA 'A'
G''G'A'E JA'F'J'9" UFBA I'G''IA'G IA ' A A'JA A D 'AJ'
''IA'CG EA' I CI' IAK'P E AJ' BK'P B" C'CG'E JA FL
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EA "AJ'J E ANF J/M GD'9" UFBA I' DDAJ F A'F'J'FC A'
M A'J" 'AEE

E'EGG''FE' ' FE'O'G '' ''!F E' IF ' IA'-G JE'IFJ'
FOA''F DE'FNF 'E' IA'R AA''IA'M E' IG NI 'FE'J '
=GC' F' C PF AJ' FE' GM' IA' AMMAC' I CI' IA' 'L
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@ F'CA'F'J'#CG "F'J' $IA'R AA'E'CF EA'A A''BAMG A'
IA CFP A'F'=F BA K'IFJ'BAA''IAF J'GM' FE'GB G E"K'
ANF JAJ' FE' IGPA"AEE' =F IA 'A' JA' TAJ C' FE' G'"K'
FM F J' IF ' 9" UFBA I' G "J' EA' IA' GPPGM ' K' G'
AF A' F' 'A 'E F'J' '' IA' 'N"G #CG CI' "" F'CA'F'J'
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EIA EA' MG IA 9F GM T FK IG FE IA' ' !F E G PA E FJA G B BA I D ' G CG'EA' 'N IF IA ! 'CA EIG "J BA EA' G A G IA / I "A T JA ""A GK FE JAEPF CIAJ G #CG "F' J G CGDA G F' 'JA E F' J 'N I IA =G'MAJA F A -G JE $IA R AA' DG IA A(L P"F 'AJ IA A E G JA ""A GK I DEA"M I IA DGE J E 'C 'AEE F' J EIA"AM I D M AA G FOA E CI DAFE AE ' CG' 'AC G' I J = GC FE EIG "J EAAD DGE A(PAL J A' PG' IA EPG

#IA FE A K EG K MG IA R AA' GM #CG E =F IA 'A EF J F' J G "J N"FJ"K IF A BAA' GM EA G IA IFJ BAA' PGEE B"A/ B IA ' A AE E GM @ F'CA A A M E G BA IG NI GM $IA R AA' GM #CG E FE IA EA"M IA CF EA GM F"" IA D EMG 'AE F' J FE 8GJ FE H E FE " OA"K A'G NI IF IA -G JE G "J B 'N IA A' A L P EA I CI IAK IFJ FOA' ' IF' J G EGDA AE " I CI IA G "J G "J 'G BA FB"A G M 'J EA A A MF " I $IA 9'N" EI ' P E GM IA G ' P PGEAE G "J 'JG B AJ"K E PPG IAD M IAK A A 'G F" AFJK A'CG FN 'N IAD 'JA IF' J FE AEEA' F" G E PA EAJA IA 9'N" EI FE AEEA' F" G @ F'CA G P AEA A IA F FCIDA' GM IA #CG CI PAGP"A/ F' J IF F FCIDA CG "J 'G F' J G "J 'G BA P AEA AJ M IA -G JE E PPGEAJ IF @ F'CA ' A'JAJ G ' A MA A I IAD $IA -G JE D E BA FEE AJ IF IA TGE =I E F' 7 'N G "J E F' J BK IAD ' P GDG 'N F'KL I 'N I CI G "J BA G IA FJ F' FNA GM IA AF"D $IA 7 'N EIAJ A"" G IA R AA'/ B IA J J 'G DAF' G I F IAD ' IA BAIF"M IA' IAK A A B JG 'N IF FE AFEG'FB"A F' J H E >A IGPAJ G'"K

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FNF JE I D F'J IF FE IA AMG A DGE P JA' G
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MAF AJ' M' EIA' "GGOAJ' G'' IF ' EIA' G "J' BA' E EPAC AJ' GM'
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JG B "AEE' IA' "F'N FNA' I CI' IA' IAF J' JF "K' M GD' IA '
G '' "PE' G A' F ' IA' EFDA' DA' X' IF ' IG A A ' COAJ'
F' EG A A N'' IA' E BHAC E' J K' FE' G' GBAK' ' IA' COAJ'
EG A A N'' BA 'N' EA'' BK' IAF A'' FE' D CI' FE' IA' NGGJ'/
IA' G'A' MG ' IA' IFPP 'AEE' GM' IA' E BHAC ' IA' G IA ' FE'
IA ' ECG NA '

' 6 : D @' >' * 9 <> F 8 >< > ' & ; F ; C '
\ = G * K' 9 B B
' *9 : <:' C' >' H: <C ; $ = F' 9 :'
% ; : : ' + $: C ' 3 : D : C : <' D> ; : C '
' >' = CF ; C : ' >< ' ; C : ' H> @ D ' ?>< C9 : '
D$ > ' 9 ; ' B<: $J' > ; ' >' $@@' 8 : ' 9 :<'
$??: D > ' > 9 C' 8 $: <' $ =' C$ 9'
8 >C ' : $< : C @ ' C9 :' @@' B : D> 8 :' $ '
; :<' : : 8 ' >' 9$ ' $ > ' ?' 9$ '
% ; : : ' H: < C9 ' & =' ?>< 8 ' H$< '
9 > ; F9' ' 8 ; C ' D> ?: CC' :<' $D C' >'
B : ' @>$ 9C> 8 :' $ =' ?> ; @' ?><' $ 'H< D: '
: ' C' 9 :' H ; C9 8 : ' 8 ><:' ; \
$; <$@' $ =' ' 8 ' D> CD : D :' ; \
; C @ ' $ =' (9> ; ' $ ' $; 9>< '
=> :' ; H> ' 9 : <Y $ =' C ; <: @ ' @@'
: E : <' H<>CH: <' 9' 9 :' =>: <C' '
J > ' > ' 9$ ' <: C F' >? ! D< H \
; <:' 8 $ ' B :' ; C : =' B ; ' 9 : C :' <; @ : C'
:' 9$E : ' H@$ ' ?>< ; C' ' !D< H ; <:

' 9 :' @=' @$ ' :' 9$E :' 9 :' : 7$ 8 H@ :'
>? 2$E = ' 9>' > ' >' = :' > ; @=' : E :<'
> ; D9' 9 C' $ > :=' ! >E : <: F ' 9 : '
9 :' 9$=' 9 8' ' 9 C' (@@ $ =' =$ F : <'
>' =>' 9$ ' 9 :' @ C : =' (9' 9 8 '
' 9 :' . : ' :' 9$E : ' H@$ ' D> 8 \
8 $ = 8 : C' >' >B : ' $ =' @>E : ' > ; <'
H< D : C ' :$' 9 > ; F9' 9 : ' B>' : (=@Y '
?><' 4 >=' C : =: 9' 9 : 8 ' > ' ?><' ; C' >'
H ; C9' $ ' > ; <' (@@' 9 : ' 9 : ' ?$; @ '
B ; ' $HH> : 9' 9 : 8 ' >' ; C' ?' 9 : '
B : ' : E @' >' H@$F ; :' ; C' ?><' > ; <' ?$; @ C '
*9 :' ><=C' B : ' H@$ ' $ =' 9 :' : 7$ 8 H@ :'
<; : ' ' 8 : $ ' ?><' 8 ' H$< ' 9'
4 >= C' F<$D : ' >' J : : H' ' $ =' ' $ 8 '
9 : $< @ ' C><< ' 9$ ' 9>C : ' 9 :<:' =>'
>' B : :<' ?>@@> ' ' A><' 9$ ' => 9'
9 :' ><@=' C$ ' B ; ' C ; B : D C' 9$E F'
F> : ' 9 : <' H< D :' >' 9 : <' 9$ =C'
?><' ?: $<' >?' 9 : <' > ' : C $: C' $ =' ?><

) ' G PG ' E 9" UFBA I FE F G'CA JAC JAJ M E (
IF TF K# F EIG "J BA 'E F' "K AE G AJ G" BA K 516
F'J G IA EG A A N'E F A/ EACG'J"K IF ' IA P GL ;@
EAC G'MG IA D JA GM +F '"AK TF K# F EIG "J
IA EA"M AECFPA FCC EF G' F'J IF DAF'E EIG "J BA
FOA' G CG A IA AP F G' >F 'N MG DAJ I E
AEG" G' IA 'A(E AP FE G A G IA R AA' GM
#CG E IA EA"M/ F'J FE EIA FE NG 'N G FC G F JE IA
I EG E BE F' F"O 'J'AEE EIA EA UAJ IA GPPG ' K
G FJJ F'G IA E E A "K FJDG' G'
* IA' IA % EIGP GM + 'B"F'A FE EA' G !F E G
F''G 'CA IA R AA' E DF FNA I %G I A"" #
?GBA TA" ""A CFDA G -G'JG' G' IA EFDA A F'J
9" UFBA I IFJ FE KA FOA' 'G 'G CA GM IA CGDD L
' CF G' X TFJFD EIA 'G G A X IF I BAA'
F" FKE IA"J MG F EPAC F"P 'C P"A ' M A'JEI P IF
P GEPA K P G JA I B FJ A E K P G A I M A'JE/
IA AGM'F " E DA M 'J 'N GCCFE G' G A MK IA
EFDA I G FC G'E A IF A IG NI DAA BG I
MG G P GMAEE G'E F'J KG CGDMG ' IAEA MA
G JE G AE MK G M A'JEI P 'G G'"K BK FJDG' EIL
'N KG GM IA G E I F"EG G CGDMG KG MG IA
BAE X * A IF A 'JA E GGJ BK ?GBA TA" ""A E CI
I 'NE FE KG NF A I D ' CIF NA G JAC"F A G' KG
BAIF"M CG'CA ' 'N KG AE F A F'J EPAC F""K GM FE D CI
FE CG "J BA EF J MG IA F""G F'CA GM KG DF FNA
TFJFD G BA P"F ' I KG G N AM IF I 'G BAA'
EDF"" IF ' I E KG DF FNA EG E"F'JA CG'E JA FL
G' IF I BAA' IFJ IF FE A PA CA A DF' MAE "K 'G
NGGJ M A'J KG IF A ' IA IG"A G "J CF' " OA

$8B > > <;@: =:H>C: 9: < C>E:\ :E @ C>8: ($ C : C C9: >E:<(
<: F $ = 8$J: 9:8 9:8C:@E:C B 9$<=@ <:D>8H: C:=% >
0D>@>;< 9: 9:$= F>E:8>;<C S :@@ F - ' , ' & ; F ; C O 6 > S &@
:@@ 9>;F9 C9: 9$E: B:: ' E:<

' "C IA AGM XF 'J M A EIP "J G IA EA A G EFK A
516 EIG "J FB EA KG /MG IG CG "J F G EA CIG CA BA
` "K DFJA MG KG IG'G IF' ' N AF IFE A G DF K
' * E CI F E BHAC IG BAE JAE G IA 'G G G E "FCOE
P B" C MFDA IF I CIF NAJ I IA D JA GM KG "F A
I EBF'J 'BAE JAE IA G CI 'N GM KG EA"M F"EG ' EGDA
PF IG NI A E ' IF BAIF"M MF"EA"K ' 'J I
IF PA " IF A KG DF AJ I D IF IF I F'G IA
MA F" A IA ABK 'A IA BK 8GJ E "F ' 'G DF' E
KG EA"M CF' BA I E "F M " MA 'G F'K CI "J A' BAL
(KG "AN DF A] $I E KG EAA P"F '"K IF A
I 'O GM IA DF FNA IA AGM A F A IAF "K EG K
IF A CF' CG'CA A 'G BA A IF CG"G FB"A AFEG'
EGA A A IF A IAF J GM KG EA F' G 'J CA E
IA A G * A EI PG' IA JAF I GM KG I MEBF'J
IA M E CF A IFJ BAA' G IF A EAF CIAJ G F'J
P 'EIAJ IA D JA A E/ I CI IF 'N BAA' JG'A
AM CC F""K \ FE AFE.K D NI IF A BAA' ' F DF A EG
'G G G E\ IA A D NI IF A BAA' DF'K DG A I 'NE
G"A F AJ BA A ' KG DF FNA IF' IF 'G CF' BA
E MMA AJ G BA EPGOA' GM ' J E A"K A CF' 'G B
MG M A'JEI P G KG EA"M BAE JAE IA 'F F" 'E 'C
IF A IF A GM B"GGJ G KG "F A I EBF'J P GMAEE
G EA" AE AF 'AE "K BA' G JG F'K I 'N ' G PG A
G P GC A IA J A P 'EIDA' GM IF D JA FNF 'E
F'K E BHAC IF KG IF A IG JAF EGA A KG IG"J
I D/ F'J 'A(IA A G G BA CF AM " IG KG EG' IA
! 'CA DFK BA P AEA AJ MG IA CGDMG GM KG F'J
KG AF"D/ I CI G I 'NE A IF A M GD IA BAL
N ' 'N F" FKE FOA' G IAF F'J IA A ' JG DAF' G
CG' ' A/ F'J G "J BA A K EG K B KG EIG "J F""G
E IA A ' IF JF'NA G E PA E FE G'E EGA A BA DFJA
G KG MG IA CG' F K
X G MG KG CGDMG ' 'E CI FJ A E K FE A IF A

IAF J KG EIG "J BA ' \ IA AGM A CF' 'G A" IF '# '
G I 'O G IA A \ ] A FEE A KG& IF IF EGA A A 516
CF' DFN 'A DAA G BA MG KG IG'G F' J EFMA K IF ;@
EIF" " A 'G PG A A PA MG D IA EFDA/ IF
 EIF" A. FPPAF KG IF A F NGGJ 'A NIBG F JAF
E E A F MF IM M A'J/ F' J EG EIF" KG 'JG B AJ"K
F" FKE M 'J E F' J P G A E G BA 'JAAJ G F JE KG /
MG I CI P PGEA A F A JA A D 'AJ G EA' J I F"
EPAAJ G'A GM G E K EA F' E 'G G'"K G 'L
JA E F' J KG E F A B F"EG IA A PG' EG G JAF
 I KG 'GB " K F' J PAGP"A FE IAK EIF" M 'J KG
'G G"FCO G M A'JEI P F' J PG A MG IA P AEA FL
G' GM KG IG'G F' J N AF 'AEE
  G "J EAAD M GD IA G'A GM I E "A A FE M IA
JA F "E GM IA R AA' GM #CG E D EFJ A' AE A A FE
KA B FN A"K O'G ' '-G' JG' 9" UFBA I FPPAF AJ
G'"K G 'JA E F' J IF IA R AA' GM #CG E FE G' BFJ
A DE I IA E BHAC E F' J IFJ DA I EGDA "F NA
J EFE A ' IA EFDA EP F' J BK IA EFDA DAEL
EA'NA EIA G A G IA -G JE
 #IA 'A A C"AF "K ADADBA AJ IF IA #CG CI 'GB L
" K A A 'G IA G ' E BHAC E #IA FJJ AEEAJ IAD
IFB F""K ' IA"F'N FNA GM F IG K F' J G' IA P AL
EA' GCCFE G' GGO G' IA EA"M G J C F A FE M EIA FE
IA -FJK !F FDG ' IA " 'A GM CG' J C I CI EIA
A(PAC AJ IAD G P E A
 @ E EIA AQ AJ IA A JA'CA GM %G I A"" E N "
G BA "F J G J E 'C "K BAMG A IA IF X EIA D NI BA
'J CAJ G BA" A A IA EFDA BK F" P GBFB"A DAF'E
>A D NI IA' BA J G CAJ M GD IA R AA' GM #CG E
F' J BA P ' EIAJ I I E FCCGDP" CAE > E CFE "AE

 ,@ I$B: 9 > 9:%;: : >? !D;" ; :KM Y + ! !
B$ /*

516

EIA JAE AJ G EAA BA P"FCAJ ' IA IF'JE GM X eA' F 'GB"ADA' IG EIG "J B 'J IADEA" AE G FJD ' 'G @ A'CI G #PF' EI GGPE ' G #CG "F'J/F'J IA RnAA' EIG "J MG IA M A BA FEE E AJ ' IA FJD ' E FL G' BK F =G 'C" G BA CIGEA' BK IA !F "FDA' GM #CG "F'J] 9" UFBA I EF J IF EIA A(PAC AJ IA C MG IA AE FB" EIDA' GM IA ! G AE F' A" N G' G BA F "A'N I MG DF""K F M AJ/F'J IA CG'E G' EG AE FB" EIAJ G "J IA' BA PIA"J F'J N F F' AAJ BK IA 9'N" EI 8G A 'DA'

$I E IF 'N F F'NAJ F"" I 'NE G IA G ' EF EMFCL G' EIA CIGEA # CIG"FE $I GNDG G' IA E G'NAE E PPG A ' IA =G GM TF K # F E C"F DE G' IA 9'N" EI E CCAEE G' G CF K JG ' IA P"AFE A G IA =G'MAJA F A 'GB"AD AP $IF IA G "J BA PA D AJ G EAA TF K # F FE FEE DAJ FE F DF A GM CG EA 9" UFBA I BA" A AJ IF EIA IFJ B G A(P AEE IA P"AFL E A FE G IA EA "ADA' GM IA # F A G BA DDAJ F A"K GBAKAJ/F'J E "" DG A EF EM AJ I IA EA"M F'J IA NGGJ ' A' G'E EIA IG NI P GPA G FCCGDPF'K IA A(AC G' GM IAD I F EACG'J F'J E G'NA FJDGL ' G' G IA R AA' GM #CG E G' IA DFN' JA GM IA ACA' GMMA'CAE

X >A MFDA F'J IG'G EIA EF J X IFJ BAA' ' F"" PF E GM =I E A'JGD DPF AJ F'J JACFKAJ/ IA I EL BF'J IFJ BAA' IG B"K D JA AJ F"DGE ' IA P AL EA'CA F'J IA PA PA F G E GM IA C DA A A NG 'N

' . > :C ?><' 9:' F>E:< 8 : ' >?' >$C9' <:F: 8
!D> @$ =' ?><' ! <' . ' *9<>F8><> ' + :$ F' H:<9$HC' 9$ ' ?' + $< '
;@ ' ' ! ;$<' $C' D> ;:='> ' 9:' 9<> :'
' & ' 9:' ?>> ' >?' 9:' H$F:' C9:' >;@=' =:C <> ' 9:' 1< D:' ?' C9:'
6:D @' <> :' 9:' ?>@@> F' 8>C ' C F\ D>;@=' $ =' ?' 9:' 1< D:' $C' C$E:='
?D$ ' > :' Y ?<>8' 9:<' 9:' ' ;< ' 8 F9 '<:E: F:'
& 9$@ $9' ':F C' :<D:H $' H:< > ' 9:<' 9 C' ?$ 9:<C'=:$ 9

F "F NA 'P ' EIAJ F' J 'EG NI FM A X#IA IFJ 2'
MF G AJ F' J DF ' F 'AJ IA 9F GM %G I A"" F DF' TOP
GM 'MFDG E " MA F' J 'G G G E"K CIF NAJ BK F" IA "K
G "J FE IA P 'C PF FEEFEE ' #IA IFJ FEE E AJ I D
' P GC 'N F J G CA E CI FE FE 'A A IAF J GM/
IF F DF' N " K EIG "J MG I E G ' GMMA'CA P F FK
I E ''GCA' MA F' J IF G BA CG"G AJ BK MG D GM
"F / F' J M 'F""K X EIA IFJ B G NI DG F AP GGM
PG' IA EA"M BK F"C 'N IF JAMFDAJ PA EG' G BA IA
I EBF' J
X $IAEA JG 'NE 9" UFBA I CG' ' AJ X IFJ BAA' EG
EIGCO 'N IF EIA IFJ 'A A IG NI G IF A JAF" DG A
I IA R AA' GM #CG E ' IA FK GM FJ CA X FO 'N
IA BK IA FC E G BA F PA EG' JAEPA F A G ACG A IA
IG'G #IA IFJ 'G BAA' F"G'A ' IA " GP ' G' GM
IA X) IA P 'CAE IA R AA' GM #CG E M A' JE F' J
'AF O 'EMG"O A A GM " OA H JNDA' >A CFP A
F' J DP EG' DA' IG A A IFJ XE AJ F 'A F" A FL
G' F' J PFEE G' GM IA D 'J #IA X MA" IA E GDFCI
P G GOAJ G F' ' F J CGDD EA F G' GM IA E E A /
'G XCG "J EIA E MMA IA BA 'N BK 8GJ E G J 'F'CA F
! 'CAEE F' J #G A A N' G BA ' E BHAC G' G IGEA
IG BK 'F A F' J "F A A E BHAC G IA #IA 'L
A' JAJ G ' A MA A ' IA MF G F' J X G JG FE D CI
MG IA _ IA C C DE F'CAE GM IA CFEA BA 'N CG'E JA AJ&
FE M EIA FE IA ' 'F F" E E A G G'"K JF NI A
$IA R AA' GM #CG E D E A""$I GNDG G' IA IG"A
I X IF IA E BHAC E D NI BA AP AIA' JAJ MG
I 'NE 'J "K"F J G IA CIF NA X * IA A IA MF " E
CG "J' G BA F G JAJ G A"" CG A AJ IA JAF" 'N IA A '
EIG "J BA EG EAJ F' J ADPA AJ FE IA IG'G D NI
BA E FKAJ M GD ' F' J IA E F A ACG A AJ G EGDA
BA A FCCG J `M IA E BHAC E G "J 'G CG'EA' G

, DFOA F F'NADA' E "' IA ' XEIA EIG "J' 'G '"FCO
HN 9'N" EI F J' G CGDPA" IAD' IA A G
#G D CI' MG ' IA' DAEEFNA' G' IA' R AA' ' IGD ' F ' IA'
EFDA D=' 9" UFBA I' ACGDDA'JAJ' X G' EA' EJGD'
' F'J' 'G ' PFEE G'' '' IA ' FJ A E K/' F'J' G' ADADBA
IF ' IA ' G '' MF " E' IFJ' B G NI ' IA ' G' IA' G B"A ' ''
I CI' EIA' MG 'J' IA EA"M
$G' IA' -G JE' EIA' FEE DAJ' IA' PG A ' F'J' IA' "F'L
N FNA' GM' E P ADA' MA JF" F B A ' #IA' J AC AJ' $I GNL
DG G'' G' A.' IAD' IF ' XEIA' 'A IA ' G "J' 'G ' CG "J'
A'J A' MG ' F'K' AEPAC ' G' IF A' IA ' R AA'' F'J' #G AL
A N'' G' BA' BK' IAD' DP EG'AJ ' G ' JAP AJ' GM' IA '
E F A' G ' P ' '' PA " GM' IA ' PA EG' ' # BHAC E' IFJ'
'G' NI ' G' FOA' PG'' IAD#A" AE' G' AMG D' I 'MF " E'
GM' P 'CAE/ IAK' D NI ' EAAO' IA' FDA'JDA' ' GM' IA '
R AA' E' MF " E' BK' CG 'EA" F'J' I DB"A' AQ AE E/ M' IAK'
J J' 'G ' E CCAAJ' IAK' XEIG "J' AD ' IADEA" AE' G'
"D NI K' 8GJ' '' IGEA' IF'JE' G'"K' P 'CAE' IAF E'
ADF'AJ ' @G ' XJG 'N' H E CA' PG'' IA' D JA A E '
EIA' BA" A AJ' IA' R AA'' GM' #CG E' G "J' CG'EA' ' G' '
M' EIA' AM EAJ' IA' -G JE' CG "J' JG' 'G' DG A' B ' 9" UFL
BA I' CG'CA AJ' X IF ' EGDA' PG A ' A(E AJ' '' IA EA"M'
F'J' IF ' MG ' IA' P ' EIDA' ' GM' IG B"A' F'J' FBGD 'FB"A'
MFC E' G'A' P 'CA' F'J' 'A NIBG ' D NI ' EA' CGDP "E G''
I' F'G IA
@ 'F""K' EIA' DP AEEAJ' G'' $I GNDG G'' I DEA"M' IA'
JAE FB"A'AEE' GM' B 'N 'N' IA' ! 'CA' G' 9'N"F'J ' >A'
G "J' IA'' BA' G ' GM' PA EG'F" JF'NA ' XF'J' DF'K'
NGGJ' I 'NE' D NI ' A'E A' G' I D' GM' 'G' EDF"" DGDA' /'
IF ' E' G' EFK' IA' GFJ' G "J' BA' GPA'AJ' G' I D'
G F JE' IA' E CCAEE G'' X#IA' DAF'' "K' F'J' A"" '
G' IA' CI "J/' F'J' I "A' EIA' CF G'AJ' $I GNDG G''
G' BA' F K' '' FPP GFCI 'N' EG' CO" CI' F' E BHAC ' EIA'
EF J' F ' IA' EFDA' DA' X IF ' GM' F"" DF A E' BK' I D

G BA CG GP FEEAJ EIA G "J DGE AE AAD GM I E E CCAEE => PBF
' I E
TOP
' IA PG" CK I CI EIA FE P E 'N 9" UFBA I DFK
IF A CG'E " AJ EA"K MG IA G ' AP F G'/ B IA
F JA GM IF NI K J C F G' FE IA "FE I CI EIA
G'NI G IF A FEE DAJ M EIA JAE AJ #CG CI E F AEDA'
G BA N JAJ BK IA EIAE $IA G'A GM EAD CGDDF'J
FE CA F ' G F A IA 'F G'F" EA'E A'AEE/ 'G
IFJ EIA 'JA E GGJ IA A(FG J 'F K CGDP" CF G' GM
#CG CI PF AE F'J ' A AE E
' IA IF AJ GM %G I A"" IA -G JE GM F"" C AAJE
F'J PF AE IFJ BAA' 'F' DG E 8"A'CF ' TF F'J
- 'JEFK FDG'N IA ! G AE F' E =F I'AEE F'J IG"
FDG'N IA =F IG" CE IFJ BAA' 'CG' 'AC AJ M GD IA
M E I IA ' N A MG +F '"AK E D JA F'J A A
E 'CA A ' IA IG G GM NK"A > ' "K TF L
"F'J F'J # `FDAE %F"MG IG IFJ BAA' PF AE I
%G I A"" G IA BG'J F = F ND "" F A A AQ F""K
'J N'F' F I E A"F G'E I IA R AA' F'J AQ F""K
JA A D 'AJ G EAPF F A I D M GD IA

' 3 C <;D > $ >' ! <' . ' *9<>F\
8>< > ' ; :' M Y '
*' ' A<> 8' 9:' D>8 8 : D:\
8 : '>? 9:'= C 8 B$ D:C B> 9'A<$ D:'
$ =' , F@$ =' 9$='B: : ' 8 $J F >E:<\
;<:C >' F: 'H>CC:CC > '>? 9:' 1< D:'
2 :' ! @E$' < :C > ' 9:' $ C '>? ; :'
>' 19 @ H' Y
* : : ' $@ 1< D H:' : ' 8 ;D9$'
F;$<=$, @' , 8 B$ $=><' L ;:' :C $' : '
$L ;:@ , : >' H><' :@ 5 : ' =:' A<$ D $'
9$' 9:D9>'F<$ ' C $ D $'H$<$' 9$B:<@:'
D>8 >' : F>' :CD< >' H><' >=$C @$C' E $C'
L ;:' 9:' H>= =>Y H<>8 : : =>' X' @>C'
! :u><:C ' X' > <>C' =:' H$< :' =:' C;'
5 : ' H: C > :C' ' > <$C'=$= E$C' H><'
D$< $C' =:@ 5 : ' 5 :C>@; $8 : :' =
9$ ' <:CH> = =>' L ;:' >' C:' @:' L ; :<: '
=$<' ' ' ' X @>C' L ;:' C:' @:' H:=@$ ' =:'
H$< $' =:C $' 5 : $' L ;:' : @$ ' : '
8 ;D9>' :@ D; =$=>' L ;:' 8 >C <$B$' =:'
@$' C:F ;< =$=' =:' C;' E =$' H:<>' L ;:' >'
L ;:<@$ ' L ;:' :@ u>' C$@ :C:' ' C:'
D< $C:' ?; :<$' =:' $L ;:@ <: > Y
' '
' 9:' M 9' >? ;@ ' 6:D @ <> :'
>' ! <' / ' ! = : ' Y
' S :' :' ' C:D<: ' D> : > ' 9'
9:' A<: D9' 9>' C9$@@ F: ' 9:' 1< D:'
>? !D> @$ =' *9: '? C9' 9' 9>>JC'
>? F>@=' $ =' :' B; ' 9' CH::D9 '
! <' . ' *9<>F 8 >< > ' C' ' !D> @$ ='
$B>; ' 9:C:' 8 $:<C Y '3 '
5 '

GEzz'A IG A A FE TF K # {F F -GdI"A A' IF' P CA MA JE F'J PG" CF J E G'E F'J EH'DPF I AE EP" F'J A' IA =G'MAJA FCK ' F" J AC G'E #GDA IFJ @ A'CI EKDPF I AE/ EG'MA b A MB IA G"J A" N G'H F'J EGDA A A MG | IA 'A M"A IA R Ab' F'J IA H ! 'CA IA J AO P"FCA ' IA E CCAEE G' FE J EP AJ BA AA' IA >G EA GM >FD " G' F'J I^ >G EA GM -A' 'G(M IA R AAx FE JAPGEAJ IA ?ANA'CK ' IA ! 'CA E D 'G K G "J NG BK IA C E GD GM #CG L "F'J G IA 'GB"ADF' 'A(' B"JG J G IA = G ' $IA R AA' BK IA DF FNA I }F '"AK IFJ AE dF'NMAJ IA >FD ?G'E $IA >FD " G'E ' A ' IFJ BAA' PF AE G IA ' JA F'J IFJ A'MAG " FNAn FM A F JE Ib DF FNA GM IA R AA' I ?G I A"" E DP"K ' IA IGPA IF EIA GG G "J BA 'AJ IA ! 'CA P GBFB"K D JA AJ F"EG F'J IA I G'A GM #CG "F'J BACGDA IA E

) ' IA G IA IF'J IA ! G AE F' E F'J IA M A'JE GM 9'N"F'J F'J GM IA >G EA GM -A' 'G(A A GPPGEAJ AQ F""K G IA C"F DE GM F MFD "K IG A A IF"M ! FP E F'J IF"M @ A'CI MG ' NI FM A =F BA K > ." # * "" FD + K G A IF F" AFJK IA Q AE G' FE FEOAJ GM A A K DF' X * FE IA F >FD " G' G F # F X $IA >FD " G'E CG "J 'G J NAE IF IA ! 'CA EIG "J BA F IA JA G G' GM 9'N"F'J/ F'J IA A FE F E G'N F' 9'N" EI MFC G' F IA BFCO I "A TG G' IG" ? I A' F'J TF A A A "K GPPGEAJ G IAD/ M IA ! 'CA J AJ IAEA 'GB"ADA' G "J IF A IA C G ' NG G +F '"AK E KG 'NA B G IA / F'J + K X IG NI G "J P G A IF J MG #CG "F'J G 'G EI BG I MFD " AE 'J FNF ' IA J MM C " AE A A ECF CA"K "AEE ' DFO 'N F MF A'Q K ' G IA C C DE F'CAE GM IA

, A" I IF FE F" AFJK O'G '/ B IA -G JE BFJ
516 F'J NGGJ G O 'N GNA IA MG IA EA A F A'JE A A
` ,"K GB" NAJ G EI A"J IGEA IG " OA %F"MG A A AFJK G
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IA A JA'CA I CI DP" CF AJ NK"A F'J > ' "K
' G ' F'J CF'J J A(PGE A GM IA IG"A I \
E CI F' A(PGE A FE G "J IF A EF EM AJ IA JADF'JE
GM 9" UFBA I G IF A FCQ AJ IA =G'MAJA F AE BAMG A
IA BF GM PGE A K MG IA AF DA' GM IA G '
EG A A N' \ FE BA" A AJ G BA DPGEE B"A
TAF' I "A IA BGJK GM IA PAGP"A ' G B"AJ BK
J MM C " AE GM I E O 'J KA DFJA 'H E GG G' IA
E JA BK IA G"A'CA GM A" N G E MF'F C ED IFJ MFE A'AJ
IA N " A(C" E A"K G' TF K'# F $IAK IFJ "AF '
M GD 7 'G(IF ! FP E K FE EK'G'KDG E I JA "
G EI P $IA R AA' "G'N IF AM " G IAD FE IA
DF ' F 'A GM ?GD EI A'G D AE IFJ 'G " OA F'G IA
`AUABA" EIG ' IA EA"M ' IA A CG"G E/ F'J FE EIA
IFJ BAA' F E N'F" A(FDP"A GM IA DG F" M E GM IA
C AAJ EG IAK JAE AJ G DFOA IA FE E N'F""K F'
A(FDP"A ' IA P ' EIDA'
G EGG'A IFJ EIA BAA' JAEPF CIAJ G -GCI"A A'
IF' 8"A'CF ' I F'PF K'GM =F" ' E UAF"G E P NAJ
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'N JG ' IA CIF" CAE F'J N 'J 'N IA C C M (AE G
PG JA / I "A IA F""AKE F'J K'JE GM 9J 'B NI A A
EAF CIAJ M GD "GM G CA""F F'J E CI EA F' E GM IA
PF"FCA G MG""G A E GM %G I A"" FE A A MG 'J " O 'N
IA A A EA UAJ F'J B G NI G F" #ABFE F'
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CH: >' ' L ; :' @:' 8 $ =B' C ;' H: $' =:' ' ! : H O ' ' '
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7 O G @ A"J FE G'A GM IA M E G BA FOA' F'J E G IA C AJ GM I E A(FD 'A E CG'E JA 'N IA ADPA GM IA DAE IF IA FE FCQ AJ %"FCOFJJA IFE BAA' EAA' FE CG' C AJ IF'NAJ F'J Q F A AJ ' F MA IG E !G A F'J !F CO t6"EG' A A(L FD 'AJ 'JA G A $IAK CG'MAEEAJ G IA G ' EIF A ' IA D JA F'J A A AEA AJ\ P GBFB"K BACF EA IAK O'A 'G JF'NA G E EAC A E\ G OAAP IA A JA'CA F F"FB"A)' IA K I GM ` 'A # `FDAE %F"MG P"FCAJ ' IA IF'JE GM IA =G'MAJA F AE F BGJK GM JGC DA' E I CI MG IA M E DA A AF"AJ G DF'K GM IAD IA ' 'A I E G K GM IA IG"A F'EFC G' $IA 9F " GM %G I A"" G' "AF 'N 9J 'B N" MG IA %G JA E IFJ " ' '%F"MQ E IF'JE IA CA"AB F AJ CFEOA I CI CG' F 'AJ IA R AA' E"A A E G I DEA"M EGDA"G A EG'L 'A E IA BG'J E N'AJ F #A G' BAMG A I E F" F'J F'G IA P GBFB"K IF I CI FE J F ' F = F ND ""F FM A IA R AA' E ""'AEE $IA CFEOA EA"M FE F E " A A'FDA""AJ BG(G'A GM IA AFE AE I CI TF K # F IFJ B G NI I IA M GD @ F'CA #IA IFJ BAE G AJ PG' IA "G A F'J IA "G A ' A ' IFJ DFJA EA GM G P AEA A IA P GGME IF IA IFJ BAA' FC 'N ' IA D JA G'"K FE IA 'E DA' GM I E D E AEE F'J I IA F IG K GM IF"M IA CG IC" %A 'N GM 'M ' A DPG F'CA G I D IA EA' +F"N"A EI G'A GM I E EA F' E M GD + 'BF FM A I E M" NI M GD =F BA K

' '*9:'6>;'D@><=:< 9:'C$ ='H:<\ C> C >'B:'H;' ' 9:' <> C $ =' ><\ 8: C?><?;<9:< F >?' 9:' <$@ >?' 9:'E:< 'H<>E =:='$@ $ C 9$' 9 C D$;C:' B: F ?><$' 1< D: C 8;<=:<' B:' >' $J:'$C $'H<:D:=: ' ' > 9:< D$C:C Y -' ' '> ' ' ' ! ' '0 '8 ' ! >$ H *9$'C>8:'D$CJ:' $C = CD>E:<:= D$ >'B:' =: :=' B ' 9:' 8>C'C$ \ F; :' =:?: =:< >?' 9:' %;:: ' >?' !D> C'?><' $C $=8 :=' B ' 9:< > ' $=E>D$:' *9:' > @ 'H> ' >' 9 D9'$'L;:C > 'D$ 'B:'<$C:='C 9:' :7$D' $;<:' >?' C D> : C Y ' ' ' ' > ' ' ! 2 $ ' E>@' 'H' OUM'

TOP
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, > "" G MA CI %F"MG NF A G +F"N"A EI B EA'
TOP P KF"A G J G IA =G'MAJA F AE IG CFP AJ BG"F
;@ IA P UA G 'J E BAF A

$IF IA R AA' IFJ '' EGDA FK F'J G EGDA JAN AA
BAA' F PF K G IA D JA FE F" AFJK A JA' G F"" IA
G "J A CAP PA IFPE G 9" UFBA I % IA A"F G'E
I %G I A"" IA A DE G' I CI EIA IFJ P"FCAJ IA EA"M
I I D I "A EIA FE E "" N'C DBA AJ I F I EL
BF'J IA AFCIA K MG I CI 'MA 'F" E 'G GG IF J
F' AP IA I I CI EIA IFJ A' CAJ I D G IA ECA'A
GM I E JAE C G' F'J IA EAC A I E G K GM IA CFP A
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" GP "F E EP C G' IFJ 'G FE KA BAA' J E 'C "K O'G '
F'J IA P GGME GM IAD "F J G ' JAFJ"K C"AF 'AEE
RCAJ G' IA IAF AJ PFEE G'E GM IA -G JE" OA G" G' M A
9 A' 'EC P "G E PG" C F'E" OA TF "F'J IG IFJ
EAA' 'G E ' JJ 'N IA G "J' GM F 'J C A 'L
DF'FNAFB"A BGK D NI MAA" F'NA D NI MAA" ' F EA'EA
"AN DF A 'J N'F G' IA' IAK PA CA AJ IA """F'K
G I CI IAK IFJ "A' IADEA" AE $IAK D NI IF A
A(PA A'CAJ GG EGDA MAF FE A"" FE EGDA CGDP 'CL
G' M FE -G J >A AE EF J IA CFEOA CG' F 'AJ IA
R F ND ""F BG'J G I CI IA 'FDAE ADF 'AJ FMM (AJ
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CA F ' IF G JG IAK EA' G'A GM IA ' DBA ' '
IFE A G !F E G IA 9F " GM T FK G 'MG D I D GM
IA J ECG A K GM IA "A A E F'J G A' AF I D G I K
BFCO DDAJ F A"K
`GI' 7'G(IG IFJ BAA' FBEA' M GD #CG "F'J
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G FBF'JG' I E PGG CG ' K F" GNA IA F'J A ' G 2
DA'A F F'J =F" ' CFDA BFCO F I E C E E G AE DA TOP
IA CGDDF'J GM IA =I CI F'J IA 8A'A F EEADB"K ;@
DA F 9J 'B NI G' IA KT I GM ` 'A =IF A"IA O "
FE F !F E PFK 'N I E CG G =IF "A E F'J =F IA 'A
$IA CIB EIGP GM # ' 'J A E -G J B GF I NK"A
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IG P AMA AJ IA @ A'CI F"" F'CA G IA 9 'N" EI \ AA
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9$=' H$CC:=' B: : : ' 9:8 Y
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5:M*<$' $; L ;:' :@@$' @:' 9$B $' =$=>'
$@F; $C' H; $=$C' : ' :@@>' H:<>' =:'
@: >C ' ,<$' L ;:' :@ : < $' H><' F<$ '
= @ / D;@ 9=' L ;:' C:' H;= :C:' D> D:< $<'
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@$' 5: $' 9$B $' C$B =><$' =:' @$'
8 ;:< :' =:' C;' 8 $< =>' =:' L ;:' :@ '
:C B' 8 ; 'H: $=>' ' L ;:' C:' 9$B@$'
C$B =>' C ' =;=$' H><' ; $' D$< $' =:' @$'
5: $'CD< H $' X' ' > 9 :@@' =:8 $C' =:'
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H< $' 8 $ >' '? < 8 $=$' =:' C;' > 8 B<:'
, ' @$' L ;$@' :CD< Bg$' : ' C ;C $ D $' L ;:'
>' $<=$C:' : 'H> :<' : ' :7:D; > ' @>'
L ;:' : g$ ' ><= $=>' ><L ;:' C;' <$(
< =>' @:' =:Dg$' $ $C' B ;: $C' H$@$B<$C
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C >' C:' B$< $' @>' =:8 $C' D> ' H<:C :I$'
-' L ;:' :@@$' 8 C8 $' <g$' w' <$:<@:' '
E: = $ ' X' ; $' D$C$' : ' :@ D$8 >' X'
=> =:' H<>D;<$<g$' C:' @:' = :C:' $@Fj '
B:E:= I$ ' ' L ;:' C ' :C >' >' H;= :C:'
9$D:<C:' @:' H> =<g$' : ' @$' D$C$' X'=> =:'
:C B' ><=: $=>' @>' =:@ ?;:F>' H$<$' @$'
>D9:' L ;:' C:' 9$B $'=:' D$C$<' ; 'D< $=>'
C; >' D>8 >' C:' 9 I>' 0 ' 'L ;:' :@ C:'
H<>D <<$C:' =:' =:C:8 B$<$?$<' =:' C;'
8 ;F:<' H< X =>C:' =:@@$' e' =X =>@:'
$@F; $' B:B =$' D> ' L ;:' 8 ;< :C:' H;:C
C$B $' L ;:' :@@$' H><' :@ C:' 9$B $' H;:C >'
: ' $E: ;<$' =:' H:<=:<' C;' 9> <$' '
5: >' '@>' L ;:' : $' : 'A<$ D $' 'X'
2 >C' D> : X =>C:' D> ' C;' C>@$' H:<\
C> $' 0 ' L ;:' =:8 $C' =:C >' 9$B $'
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B [=>@:' 9:C9>' 8 ;D9>C' $ 8 ><:C '
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C$B $' =:' L < : '@:' 9$B $' E C >' '@: =>'
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EG" G ' GM IA J M% C " AE ' I CI IAK MG ' J IAD
TOP EA" AE IA =G ' MAJA F AE ' AJ IAEA 'GB"ADA ' G HG '
IAD ' F 9J 'B NI ' F 8A ' A F =G ' A ' G ' $IA
AQ AE FE JAC" 'AJ ' B ' G EG JAC" 'AJ FE G "AF A ' G
IGPA IF ' ' NI ' BA FCCAP AJ G ' CA F ' CG ' J G ' E
FE 'JA E GGJ IF IA E PPG GM Ib >FD " G ' E
G "J BA N A ' M AA"K G IA PF K IG IFJ DP EG ' AJ
IA R AA' M IA E CCAEE G ' G IA ?ANA ' CK A A JA A L
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CI FE IA CG ' J G ' GM PF AE I DG E F ' J J EL
PGE G ' E ' #CG "F ' J I CI 9" UFBA I IFJ EA ' $I GNL
DG G ' G CGDDF ' J F ' J CG ' G" #GDA ' A"" NA '
' DF G ' GM IA CG ' M E G ' I CI IA FE G M ' J
IA A IFJ BAA ' F" AFJK EA ' G =AC " BK TF "F ' J
FE DPG F ' G DFIA 9 ' N"F ' J MAA" IF @ F ' CA
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DGE BA ' AM C F" G #CG "F ' J F ' J IA P AMA AJ A A ' '
IA P AEA ' ADA NA ' CK G G O ' IF DG ' K I IA
9 ' N" EI =G T JA ""A GK IG A A IFJ CGDA
G A I E CI F D F ' J " BA F" GM MA E M GD IA
7 ' N GM @ F ' CA IF M 9" UFBA I AM EAJ G E PPG
IAD M 9" UFBA I ' A MA AJ BA AA ' IAD F ' J IA
R AA ' IAK G "J BA CGDPA""AJ G C"GEA I IA
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I DEA"M PG ' IA >FD " G ' E F ' J IA A G "J BA F
C " F

$I GNDG G ' IFJ E F AJ BAMG A TF "F ' J E "A A
F AJ B ' P GJ CAJ ' G AMMAC PG ' 9" UFBA I #IA
IFJ P G JAJ DAF ' E FE EIA E PPGEAJ G PF K IA JF ' NA
M GD @ F ' CA/ MG M IA =G ' MAJA F A -G JE AM EAJ G

A"AFEA TF K# F $I GNDG G' GG FE J AC AJ G
FJJ AEE I DEA"M G IA >FD " G'E $IA I AF A'AJ C
/ F FE 'G ' '9" UFBA I E GP ' G' GG JAF F P CA MG
IA CG E ' E " BA K #IA FE P APF AJ G FOA PF
I IA P A A'E G'E GM IA MFD "K I CI IFJ BAA' IA
' F K 'N GPPG'A' E GM 9 'N"F'J M IAK G' IA E JA
G "J HG ' I IA ' ' IA P GC 'N IA A"AFEA GM IA
R AA' F'J =IF "AE D NI E PPG M IA P"AFEAJ IA
! G AE F' ' 'GB"ADA' ' GPP AEE 'N I E G ' O 'E GDF'
' IA IGPA Ihw M EIA IFJ Db G I 'O 9" UFBA I
G "J 'G PA E E ' EG A(FG J 'F K F PG" CK $I GNL
DG G' " 'NA AJ G' IA GFJ >A E GPPAJ F 8G IFD
B K G F"O G %FCG'/ IA FE A' JFKE ' AFCI 'N
%A EO/ I "A 9" UFBA I FE CG ' 'N IA IG E I CI
G "J IF A G PFEE BAMG A IA CG "J AFCI 9J 'B NI
F'J EA' DAEEFNA FM A DAEEFNA G I D G DFOA IFE A
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D 'F G' ' G I CI EIA IFJ EA "AJ IA EA"M $IA
I NIAE ' A AE E GM 9 'N"F'J A A BA 'N EFC M CAJ MG
IA EFOA GM G'A BFJ GDF'/ B IA GP ' G'E F'J
IA ADG'E F'CAE A A F" OA J E ANF JAJ -A CAE A
IFJ G A"" $I GNDG G' ' F PFEEFNA I CI IA ' JA L
" 'AJ X IF IA J J 'G EAA F'K PGEE B " K IF IA
R AA' E TFHAE K CG "J BA G' G JAF" FE EIA EIG "J G
G "J JG M IA R AA' GM #CG E A A 'G ' PA EG'F"
JF'NA /' F'J $I GNDG G' G' IGD IA I GM
IA E F G' MG CAJ EA"M DG A F'J DG A C"AF "K FE IA
FPP GFCIAJ #CG "F'J CG "J B AP"K X IF IA FE A K
EG K IF IA R AA' E TFHAE K E J EPGE G' F" A AJ 'G
G F JE IA -G JE/ MG IA' F"" FE JG'A ' FE IAK
I CI G "J E F'J IA ' ' DG A E AFJ IF' IA R AA'
IA CG E ' F'J G "J BA BA A 'E DA' E G (GO

" C EGDA BA ' AM F ' J Q A G IA T FHAE K F ' J IA AF "D TOP IF ' IA R AA ' GM #CG "F ' J IG FE G J GM NGGJ MFDA

$I E A" C F ' "K IA FE J A ' MG F J G ' I E ' P GD E 'N D EE G ' >A IFJ "AM - G ' JG ' G ' IA E GM ` "K/ G ' IA K I IA FE F @FE =FE "A IA A TF L "F ' J F ' J > DA DA I D F ' J PG ' M DAJ I E D EN 'NE GM IA P GBFB"A AM AC GM I E DAEEFNA $I AK EF J B AM"K IF IAK IFJ 'G O ' J GM E ' 9" UFBA I ' F"" IA F ' EFC G ' E I IAD EIA IFJ CG ' E JA AJ ' G ' A AE E B IA G ' #IA FE E "" P"FK 'N IA G"J NFDA/ F ' J M IAK X F ' IA MG 'A F ' J F ""G AJ IA G J AC IAD ' IA P AEA ' CG ' J G ' IAK A"" O ' A X EIA G "J "AF A IAD ' IA B F E $I GNDG G ' EPGOA GM IA E ANA GM - A I $I K AP" AJ IF ' A(PA"" 'N IA @ A ' CI EIP IFJ BAA ' CG ' E " 'N IA G ' EFMA K ' G IA E/ XF ' J PG ' G IA FCC JA ' E I CI IFJ CIF ' CAJ E ' CA IAK IFJ GBEA AJ E CI I 'NE ' IA TFHAE K E JG 'NE FE IFJ A ' JAJ G IA JF ' NA GM E CI FE EIA IFJ JAF" IF" G IA G A I G GM IA G ' JAE N ' DA ' E F ' J" "A G IA EF EMFC G ' GM F ' K PF K E G IA P AEA ' DAEEFNA TF "F ' J EF J I F ED "A IF EIA IFJ BA A "AF A IAD G IADEA" AE $IA @ A ' CI X A A AFJK G JA" A IAD GM IA R AA ' MG A A G A ' J IA " MA ' @ F ' CA ' F ' FBBAK AC" EAJ/ IA @ A ' CI G "J P G AC IA ! ' CA F ' J P G AC IA =G ' MAJA F A GB"AL DA ' M GD 9" UFBA I G M GD F ' KG ' A/ F ' J IAK IADL EA" AE ' A ' JAJ A IA G C"GEA I IA P GPGEF"E G A"EA X JG IF IAK IG NI DAA MG IA E F A F ' J CG ' K F J EA IA ADAJ AE FE GCCFE G ' EIG "J DG A IAD $I GNDG G ' FEOAJ IA IA IA CG "J EAA IA R AA ' $IAK AP" AJ IF FE I NI "K ' "OA "K

$IA @ A'CI DBFEEFJG IFJ BAA' AM EAJ F'J IAK C ,'TU
G "J 'G GMMA'J IA M A'JE '! F E BK EIG 'N p6
MF G E G IA D ' E A GM 9" UFBA I I CI IFJ BAA'
I IA"J M GD J = GC '"AEE 9" UFBA I G "J PFK F
I NIA P CA MG IA P AMA A'CA IF' EIA EAADAJ 'L
C" 'AJ G PFK E G EA 'N IA R AA' F '" BA K X
FE B MG""K' G EPAFO ZGM E CI F I 'N M IA R AA'
GM 9 'N"F' J 'E E AJ PG' I E CG "J G '"K BA BACF EA
X EIA DAF' IA 'JG 'N
9J 'B NI # CIG"FE MG 'J IA EFDA I DG
G F I DG M PGEE B"A DG A 'MF G FB"A G 9 'N"F' J
>A J J 'G I 'O TF K # F C BA ' P AEA' PA EG 'F
JF 'NA # IA FE C"GEA"K N F JAJ B IA IAF" I FE
APG " J G BA NGGJ/ F' J EG MF FE IA CG "J"AF ' IA A
FPPAF AJ G BA 'G ' A' G' A IA GM P B" EI 'N IA N " '
G GM G CI 'N IA '" MA # IA D NI BA A"AFEAJ IA FE
G"J M EIA G "J DFOA P IA D 'J G N A P %G I
A""/ B EIA CG' ' AJ GBE 'F A/ X EIA F G AJ CG'L
E F' "K IF EIA G "J " A F' J J A I I D/ X M
A A P G IA CIG CA IA IA EIA G "J A" 'Q EI
C G ' F' J O 'NJGD G IA -G J %G I A"" EIA G "J
F IA '"AF A IA O 'NJGD F' J J N' K G" A FE F E DP"A
JFDEA" I I D/ F' J EIA G "J 'A A CG'EA' IF IA
EIG "J MF A G EA G IF A DG A IF D IF' IA EA"M
#G "G 'N FE I E DGGJ CG' ' AJ 'A IA IA PA L
E FE G 'E 'G I AF E GM 9 'N"F' J EIG "J '"GCO IA
NF AE GM -GCI"A A' =FE "A %P EG MF FE $I GNDG G'
CG "J "AF ' IA P PGEA GM IA =G 'MAJA F A GB"ADA'
A' JAJ ' IA CG 'M 'ADA' F' J M IAK A A "AM G
IADEA" AE IAK J J 'G DAF' G I IA
$IA ="A NK F' J =GDDG 'E IG A A A A ' F "AEE

, NA' "A ADPA / $IA 8A'A F EEADB"K IFJ BAA' P GL
TOP GN AJ FM A F EIG EAEE G' B FE G AGPA' G' IA
` "K FG I GM ` "K FE 'JA E GGJ IF TF K # F E
JAPGE G' M 'G IA JAF I G "J IA' BA M A CA"K
JADF'JAJ/ F'J X IA CI AMAE GM IA -G JE J E 'G
EIG IA FE D CI"A' K FE IAK G "J ' MAF GM IA
PAGP"A X$IA GDA' A A DGE M G E F'J DP JA'
FNF 'E IA / KA IA DA' A A DFJ A'G NI 'J
IA R AA' E PA FE FNN F F AJ BK IA PAC "F
'MFDK GM IA >FD "G'E' IG ' MG D F'J G F J"K
A A P A A'J 'N G BA G' IA E JA/ B F IA X BAL
CF EA IAK G "J IF A IA -G JE JAE GK IA '
MAF IF G IA EA EIA D NI BA ACG A AJ M GD IAD
BK G"A'CA $IA R AA' G'CA JAFJ IA G'"K CG'E JA L
FB"A GBE FC"A G "J BA ADG AJ I CI E GGJ BA AA'
IAD F'J IA C G ' $ AFCIA K EG P GMG 'J D NI
IF A EAADAJ 'C AJ B"A/ B FE ' IF DG'K I'F""
IA P A G E CG'J C F'J FE B G NI G F PG '
F'J GPA'"K F G AJ DDAJ F A"K FM A
$IA JF'NA FE N AF A F'J DG A DDAJ F A IF'
$I GNDG G' E PPGEAJ $IA D EE G' F'J DAEEFNA GM
JA ""A GK IFJ CG'C" E A"K EF EM AJ IA =G'MAJA F AE
IF IAK IFJ 'G I 'N G MAF M GD @ F'CA >A IFJ G"J
IAD IF M IA R AA' A A EA' G !F E EIA G "J BA
FOA' CF A GM IA A F'J EIG "J G B"A IAD 'G M IA
$IAK G "J IF A CG'EA' AJ B MG IA AM"AC G' IF
X DA G "J IA"P G CF'CA" IA J EN FCA/ F'J IF X EIA
D NI BA F' 'E DA' F EGDA M A DA G G O
'A 'Q A 'AEE >A ""A GK CF AJ BFCO IA AL
M EF"/ B 'G AEA' DA' MG""G AJ F'J 'G CIF'NA GM
G'A =F IA 'A JA TAJ C EG MF M GD FO 'N GMMA'CA
EA' F EACG'J D ' E A T JA - N'A G""AE F NA' "ADF'

GM IA IG EAIG"J I F D EE G' P AC EA"K E D "F +A 2
- N'A G""AE FE G JA AJ G ACG'C "A IA >FD " G'E F'J TOP
IA =G'MAJA F A GB"ADA'/ G JG EGDA I 'N MG IA `"K
R AA' M PGEE B"A B CI AM"K F'J AEPAC F""K G J F
#CG "F'J 'AF A G @ F'CA/ G FEE A F""PF AE IF
@ F'CA JAE AJ DA A"K IA A""BA 'N GM IA CG ' K
F'J FE AFJK G E PPG IAD ' F'K DAFE A I CI
IAK CG'E JA AJ 'ACAEEF K ' G IA G JE IF IAK
D NI JG IF IAK P"AFEAJ P G JAJ IAK G "J AL
'G 'CA 9'N"F'J F'J AF FCI IADEA" AE G IA G"J
F"" AE

$I E JFK FM A JFK N A DG A " OA"K IF IA
-G JE G "J FOA IA B AM E A FK I TF K# F
F'J IA G'A FOA' BK 9" UFBA I G'"K 'C AFEAJ IA
JF'NA $I GNDG G' IFJ 'G BAA' J"A >A IFJ
MG 'J DAF'E G CGDD ' CF A I IA >A IFJ NAJ
IA G CG'EA' G IA E 'N"A CG'J G' 'JA I CI IA
CG "J IGPA G ' A MA A MG IA E CCAEEM ""K B IA
MG 'J IA $C GBE 'F A FE G IA E IFJ MG 'J IA X#IA
G "J BK 'G DAF'E K A"J G FBF'JG' %G I A""$C IA
9;CB$ = B; >;@= <$ 9:< = : !9: B:@ :E:= ><
FMMAC AJ G BA" A A IF EIA FE I CI "J/ B F
E F G' I CI E EPA'JE IA A(AC G' GM F' G J 'F K
C D 'F" G'"K A'JAJ G P AC P F A IA MF A GM IA
R AA' GM #CG "F'J F'J IA P GEPAC GM EE A M GD EG
JA AE FB"A F DF FNA X IF JA'AJ IA G JE G N AF A
EA A K FNF 'E IA

%G I `GI' 7'G(F'J I E MA""G D ' E A = F N
FN AAJ ' FJ GCF 'N IA A(AC G' X$IAK A A M L
' EIAJ I DF'K F N DA' E EGDA M GD #C P A
EGDA M GD I E G AE EGDA N G 'JAJ FE IAK EF J PG'
IA "F E GM IA AF"D \ X$IA =GDDG'E CG' A'AJ F

C <;D > C > T =: 3F :<>":C Y " G"

"2 MA EEADB"K J J D ' J DF ' MAE "K IA R AA ' E JAE C OP G ' / ' F ' J X FE F P B" C EPAACI FDG 'N F"" PAGP"A ' K F ' J FDG 'N F . AE F AE IF IA R AA ' IFJ 'G DG A " BA K G CGDD D JA ' 'G FJ " A K IF ' F ' K G IA P F A PA EG '

$IA ' IFPPK GDF ' F"F DAJ F " FE F IA MF A I CI FPPAF AJ EG 'AF IA DFJA F ' AMMG G EF A IA EA"M # BJ AJ G IF"M E BJ AJ F ' J GBE 'F A G ' "K ' IA "G A MG %G I A"" EIA BANNAJ IF IAK G "J ADADBA F "AFE IF EIA FE IA MF IA E JF NI A F ' J IA ! 'CA E DG IA M G "J EF A IA " MA EIA EF J IF EIA G "J DFOA G A IA NG A 'DA ' A IA G IA B G IA 'G G F =G 'C " GM IA -G JE G G F ' K PA EG ' G PA EG ' E IAK D NI BA P"AFEAJ G 'FDA

% FE 'G " OA"K G F F " IA X $IA P AFCIA E A A GM G 'A D ' J IF EIA EIG "J BA P G JAF I $IA DG A DGJA F A FDG 'N IA 'GB"ADA ' X J E 'G EPAFO MG IA /G F G J IA M K GM IA PAGP"A T FK I DEA"M JA F 'AJ F ! F E EA ' G A I E M A ' J T 9" PI 'E G 'A G ' A CAJA B EAAD 'N"K IG AMMAC X $IA PAGP"A A A N AF "K F ' DF AJ FNF 'E IA $IA X =G 'MAJA F AE X A A GG MF G A IA E AFD G "AF A IADEA" AE 'P G JAJ MG / F ' J X IA CGDDG ' G JA JAC"F AJ IF EIG "J 'G " A ' IA PG A GM F ' K I ' IA AF"D G IG G OAAP IA M GD CQH J N ' P ' EI 'FA ' MG IA ' G G G E C DAE . ' IFPP "K I^ IF ' JE I CI G "J IF A A(AC AJ I E I NI FC GM H E CA A A IADEA" AE DP A $IGEA IG F"OAJ IA "G JAE GM IA N " GM D JA IFJ MA " ' G IG G F IA D JA GM ? UU G / F ' J A A ' I 7 ' G(I DEA"M F ' J I I E G ' IAF AJ CG 'N ANF G ' IA

FNA FNF 'E IA R AA' FE B PF "K J A G IA DG F 1 2
' Q AE $IAH GG A A DA' GM 'G A K A'JA TOY
'A AE/ F'J IFJ +F '"AK P G AJ IA EAM =F IG" C ;@
I CI IA R AA' ' A'JAJ I D G %A IAK G "J IF A
EA' I D G I E FCCG ' I FE EDF"" CGDP 'C G' FE
 `FA" EA' IA =F'FF' A CFP F ' G IAK G "J IF A
B"AEEAJ IA F D IF J J I FE D CI A"GQ A'CA FE
+ABG FI
#G MF FE $I GNDG G' CG "J H JNA IA A A MG
PGEE B " AE TF "F'J IG IFJ IA DA GM ADADL
BA 'N I E G ' EIF A ' +F '"AK E JAF I P GPGEAJ IF
IA R AA' EIG "J BA A"AFEAJ F'J AE G AJ G F "F
EG A A N' K $IA PG A CG "J BA AE AJ IG""K ' F
=G 'C" F'J IA IF'JE AJ EG IF EIA CG "J JG 'G
BF D , ANF" EAC AE CG "J BA FOA' MG IA AE FB" EIL
DA' GM IA ! G AE F' A" N G' / IA ! 'CA CG "J BA
CG' AKAJ G EGDA EFMA P"FCA A IA @ F'CA G 9 'N"F'J
FE CG' A' A'CA D NI J C F A/ F'J %G I A"" BA FOA'
J G CAJ F'J A(AC AJ TG G' F'J IG" P AMA AJ
EIF"J'N GMM IA R AA' F'J DFO 'N F F'NADA' E MG
IA CG'M 'ADA' MG " MA ' 9 'N"F'J M 9" UFBA I
G "J CG'EA' G FOA CIF NA GM IA $IA ! 'CA
EIG "J BA C G 'AJ F'J #CG "F'J NG A 'AJ BK IA
-G JE
% ' 'A IA GM IAEA GP ' G'E MG 'J NA'A F" MF G
$IA DFEE GM IA PAGP"A N'G F' GM IA EAC A I E G K GM
IA D JA 'E E AJ IF IA R AA' EIG "J BA P B" C"K
AJ F'J M MG 'J N " K EIG "J A IA ADF ' F
P EG'A FDG'N IADEA" AE IA A EIA CG "J N A 'G
DG A G B"A G A"EA BA P G JAF I
) M IAEA F" A 'F AE IA EACG'J FE DGE " OA"K G
BA P AMA AJ X MG IAK J AFJAJ D F G' FDG'N IADL
EA" AE IA CGDD EA F G' GM MG A N' ! 'CAE F'J " OAL
EA IF ' DA IA #CG E IADEA" AE G "J IF A

%

CGDPFEE G' MG IA $I GNDG G' ' A CAJAJ F NnAJ P G AE AJ # BHAC E IA EF J CG "J 'G E ' 'H JNDA' G' IA EG A A N' M IAK A(AC AJ IA X IAK G "J PA F FK IA ' 'MFDK F' J X ' PG' IADEA" AE IA ' J N' F G' GM IA G "J % IA M A CA IA G C GM 7 'G(I IA B"GGJK F' 'F"E GM IA CIGEA' PAGP"A MG I E A(G A G EI AJE IAEA MAAB"A CG'E JA F G'E $IA 9 'N" EI D ' E A FE G"J IF X ' A(FG J 'F K A'G D AE F' J DG'E G E JG 'NE IA A IFJ BAA' F' J D E BA A(FG J 'F K P GCAAJ 'NE A GMMA'CAE J J' 'F"" # F AE GCCFE G' 'A "F E F' J 'A P ' EIDA' E X# A"K EF J TF "F' J G I D I' B A I X IA R AA' GM 9 'N"F' J IFE FOA' F' "" FK G IF A E F IA JA G G' $IA 9F " GM T FK MG ' J CG"J A" AM F' J EDF"" MF G F IA IF' J F' J 'G EIA IFE EA' IA A G P GC A G R AA' E " BA K G "J IFJ BAA' BF' EIAJ DK CG ' K MG EA A' KAF E G' CG' J G' IA R AA' KG D E AEE IFJ JAF" " BA F""K F' J M A' J"K I E >G A A IA CFEA MF"" G A EIF"" M 'J" "A MF G F IA IF' JE DG A IF' MF G JE X X P FK KG FJ EA $I GNDG G' P F A"K G A G =AC " X P FK KG FJ EA IF E BAE / F' J EG FE IA R AA' BA 'N JAFJ A IA ' BGJK G AE F A I E ! 'CA F' J CG ' K CGDA 'G ' IA @ A'C I JA G G' G G'A CFDP M IA T FHAE K JG 'G ' DA ' IAEA -G JE F' J ACG A IA A FEAJ C AJ FDG'N IAD BAMG A IAK IF A A' JAJ IAEA DF A E IG IA FJ CA EAA IAK "" FOA hCG EA" "A G G FJ F' FNA

C: : 8 :=$C ?' >E:<B>< :' B 9:' C ><8 ' $ =' B 9:' 9>H:@:CC :CC >?' 9:' C ;$ > ' 9:' , F@ C9' & 8 BCC=><' >& ' F$E:' ;H' 9:' %; : : ' ?><' @>C ' $ =' $C ;< F' 9 C' 9>;F9 C' $ =' 9 C' :??>< C' >' H<:C:<E F' 9:' $@@ $ D:

BA AA' 9 'N"F ' J F ' J #CG "F ' J 9 A' I E G "J BA ('
'G AFEK DF A EG A(FEPA F AJ A A IA #CG E F IA
G 'A I CI 9" UFBA I IFJ FEE DAJ G IAD X PA JA ;@
"A HA Q "F EEA "F PF A EF J TF "F ' J G I D '
F 'G IA CG ' A EF G ' X G DK N AF N AM EPAFO
IA R AA' DK #G A A N' DFK 'G BA FBKJ ' FDG 'N E
F ' J I E E 'G DA G JG IA NGGJ M EIA BA G JF 'AJ
G IF A F ' K $IA AMG A FOA IAAJ IF IA R AA' KG
D E AEE JG 'G "GEA IA NGGJ "" GM I E CGDPF 'K
APF FB"K FEE A KG M IA R AA ' E TFHAE K JAF'
'G G IA EA IF' EIA JG I KG "" "GEA F"" F ' J
EIF"" 'G " A ' IA PG A GM KG A"" ""A E G IA"P
'G DG A IF' JG I ' G PG A 'G G IA"P IA
R AA' G #G A A N'

TF K # F E E ' FE 'G F IA PG ' GM EA 'N
$IA PAGP"A A""O 'A IA 'F A F ' J FDG 'N IA PFEL
EG 'E I CI A A J E FC 'N IAD IA MAF I CI E
IA DG IA GM C A" K FE 'G IA "AFE PG A M " '
IA AKAE IA NA ' "A E MMA A GM DGJAD EA ' DA ' F" ED
FE F FPPAJ "J CF IG M IA CFNA FE GPA 'AJ
G "J M (C"F F ' J MF 'N ' G IA I GF E) ' IA
K E GM ` "K F F DAA 'N GM IA =G 'C " ' IA D "JA
P GPGE G 'E GM TF "F ' J F ' J TG G ' A A JAM ' A"K
EA FE JA FE AEG" AJ G P GCAAJ DDAJ F A"K I
IA CG G 'F G ' GM IA ! 'CA M IA R AA' CG 'EA ' AJ
\ FE IA ' EIA M E O 'A IA A(A ' GM IA JF 'NA EIA
IFJ HH GD EAJ G JG \ IA " MA G "J BA EPF AJ F ' J IA
"A A E F ' J IA G IA A JA 'CAE GM IA 'MFDK G "J
BA I IA"J M GD P B" C O 'G "AJNA M EIA AM EAJ
IA I ' F"" E JAMG D K G "J BA "F J BAMG A
IA G "J ' EGDA MG D G G IA EIA G "J BA

* 9<>FE >< > > ,@ I$B: 9 ;@ K Y

, 3 d /

' "C' B G NI ' G F"F' F' J' FE CA F '"K 'CG' JAD' AJ ' . ' JA '
'G C C DE F' CAE EIG "J' EIA "AF A' IA' AF"D/ F' J'
` .K X IF 'N' NG' A' EG' MF ' ' IAK' G "J' 'G ' I 'O' G' M ' J'
F' K' EFMA K' EG' "G' N' FE' EIA' FE' F" A ' TF K' # F ' IA L
EA"M' "GGOAJ' MG ' 'G I 'N' B ' A(AD K ' @ GD' F' "GGPL
IG"A' ' ' IA' G 'J' G A ' I CI' FE' IA ' P EG' ' ' F' '
F' N"A' GM' -GCI"A A' ' =FE "A ' EIA' CF""AJ' G' F' CI "J' IG'
FE' F""G AJ' G' F' JA ' G' ' IA' E"F' J ' F' J' BFJA' I D'
X' A"" IA ' M A' JE' G' P FK' G' 8GJ' MG ' IA ' EG " \ IA ' BGJK'
FE' 'G ' G I' B ' " "A '

`GI ' ' 7 'G(' IG' ' ' IAG"GN CF" "F' N FNA ' A(P AEEAJ'
IA' D> D@;C > C'GM' OAA' ' D>>@ PG" CF" EFNFC K ' X J J' CG' L
' A' I E' EA A A' A(IG F G' E' FNF 'E ' IA ' I AF A' 'N'
IA' N AF ' P"FN AE' GM ' 8GJ' G' IA' IG"A' CG ' K' F' J'
'F G' ' M' EIA' FE' EPF AJ' M GD' CG' J N' ' P ' EIDA' '

9" UFBA I E' BAIF G ' F ' I E' C E E' FE' 'yG A' C AJ L
FB"A' G' IA ' IAF ' IF' ' G' IA ' 'JA E F' J 'N ' #IA' IFJ'
G' "K' G' ADF ' ' 'A F" ' F' J' EIA' G "J' BA' JA" A AJ'
MG ' A A ' M GD' IA' F" IG' IFJ' G B"AJ' IA ' PAFCA'
M GD' IA' IG ' GM' IA ' FCCAEE G' ' F' J' I "A' EIA' " AJ'
G "J' 'A A ' CAFEA' G' G B"A' IA ' $IA A' FE' 'G'
GCCFE G' ' MG ' IA ' G' CGDD ' IA EA"M' BK' PIG"J 'N' 'E L
AC G' ' $IA' #CG E' A A' 'G' E BHAC E' GM' IA E' F' J' EIA'
FE' 'G ' F' E A FB"A' MG ' IA ' CG' J C ' $IA' C DA' GM'
TF K' # F E' A(AC G' \ M' C DA' ' G "J' BA \ G "J'
BA' IA E' 'G ' IA E'/ F' J' M' EIA' J J' 'G ' ' A MA A' ' G' P AL
A' ' G ' A A' NA' ' IA' " DF A' AMMAC ' G "J' 'A FB"K' BA

' $IA' #PF' EI' DBFEEFJG ' IAF J' 'GE' F EGE ' K' "A' IFB F' J CIG' Q A'
I E' M GD 9" UFIA I \ X - F' ?AK ' F' DA' J (AEA' h' E E' FD NGE' Q) GNFEA ' ' h'
IFB F' J CIGQ A' JAEP AE' Q A' "F' IFB F ' ' + GE' PG ' A" F" DF ' Q A' A" C A PG' F" F'
P AE G' A ' "F' G A' CG ' ' F ' F' AE A ' PGCG L G *' B '&' & ' *3 ' ` " G' 31'
CIAUF' K' PGCF' CGDPF[WF ' Q A' IFB F' 9 BB ' B & C&/
E G' PG ' tDF' A ' F ' "" F' ' ' D CIFCIG' ' $I GNDG G' ' G' 9" UFBA I ' ` "K'
Q A' PG ' EA ' JA' PGCF' AJFJ' "GE' N F JFE' 3 \ 9 BB ' BC$ & +
'G' A ' WF ' ' C A ' F ' K' EG" F' JF "G' F"N L

G J F IA BF' JE C"GEA BA AA' #CG "F' J F' J 9 'N"F' J 2
VA EIA MG NG IA ' A AE / F' J IA FMMAC G' F' J IA TOP
F M CAE F' EIAJ ' AEA' DA' F' J P K >A ' J NL
'F G' FE F EG A A N' FE A A' "AEE IF' IA EG G
MG F E MMA 'N E E A #IA J J 'G I JA M GD IA EA"M
IA R AA' GM #CG E MF " E \ B EIA J J 'G BA" A A '
IA A(A' GM IAD/ IAK EAADAJ FE 'G I 'N BAE JA
IA DFN' JA GM IA CF"FD AE F' J EIA FE P APF AJ
G A'CG ' A IA G E PG" CF CG'EAQ A'CAE F IA
IF' E F' J BK F' J EAA IA EFC M CAJ
X VG DFK FEE A IGEA -G JE EIA G A ' F'E A
G $I GNDG G' E "FE "A A E X IF A JG JA AE F' J
FBIG IA D JA CGDD AJ PG' G CG E ' IA
7 'Na B IA IAFJ CF' ' G BA E BHAC G IA MGG
F' J A CF' ' G ACGN' EA ' IAD F' K NI G CF"
IA #G A A N' G FCCG ' VG EIF" P"F ' "K A" IAD
IF M IAK JA A D 'A F' K I 'N G IA JAP F G' GM
IA R AA' IA #G A A N' A F A A" FEE AJ GM G
G ' JA A D 'F G' IF A " DFOA G EA" AE F P"F '
PF K FNF 'E IAD G IA A A'NA GM IA #G A A N'
MG F" PGE A K E G IA @ A'CI F"" F'CA "
N A A IAD ' IA A'J FE D CI FE " 'H A
9 'N"F' J/ F' J KA A A G IA EA A CF' ' G 'G
" MG G PF C "F P GM F I E DA BA 'J CAJ G
CG'EA' G IF I CI A CF' ' G ' CG'EC A'CA" OA G
F"G B EIF" AD IA CG'EAQ A'CAE IA AGM G IA
NGGJ " F' J MF G GM "D NI K 8GJ F IGEA IF' JE
A IF A MG 'J 'G "FCO ' IA JG 'N GM GD 'N F'KL
I 'N IA A ' G G CG'EC A'CA IFE 'J CAJ E ' #G
EIA G A G #CG "F' J/ F' J IA #PF' EI DBFEEFJG
IG FE E EP C G E A'G NI NA' A F""K GM IA DG AE FE
#F EM AJ IF EIA DAF' IF EIA EF J M IA -G JE

PA EA A AJ EIA G"J I D EIA G "J CF"" G ' @ F 'CA G HG ' I IA ' ' P ' EI 'N IAD/ M @ F 'CA AM EAJ F 'J NF A IAD CG ' A 'F 'CA EIA G "J ' A ! I " P G IG"J @ F 'CA ' CIACO I "A EIA IA EA"M EA ' F ' 9 'N" EI J DK G #CG "F 'J G EA IA R AA ' F " BA K F 'J AP"FCA IA 'G ' IA I G 'A VA 'EIA MA" IF IA DA 'FCAE D NI D EE IA AMMAC 'FK PA IFPE D NI P GJ CA M EIA F ADP AJ G FC PG ' IAD IA A K I 'N I CI EIA DGE J AFJAJ #IA D NI A A 'NA TF K # F E JAF I B EIA G "J 'G P A A ' IA -G JE M GD O "" 'N IA M EIA P G GOAJ IAD G A(AD AE 'J FNF ' IA ' CFDA G IA PG ' IA EA 'J 'N GGPE G #CG "F 'J G ' E CI F ' A F 'J FNF 'E IA GP ' G ' GM IF"M IA =G 'C " D NI ' G" A F ' 9 'N" EI A G" G ' G"A ' "K FE EIA FE FMMAC AJ EIA CG "J 'G I JA IA I M GD IA EA"M F 'J IA AMG A MG IA DDAL J F A P PGEA \ EF 'N TF K # F E " MA \ EIA "GGOAJ I D CI F '(A K G IA A ' GM IA 9F "" GM T FK M GD @ F 'CA) ' T FK E ANF J MG I E E E A F 'J G ' T FK E PG A G P G AC IA EIA BAL " A AJ IF EIA CG "J A"K) ' I E PFEEFNA I G NI -G 'JG ' ' P " IF A A D NI IF A BAA ' I E EAC A IG NI E IA IFJ B AF IAJ 'G G J GM B"FDA FNF 'E IA >A IFJ DA ' G 'AJ G JA # " F IA APG E I CI A A C A ' ' #CG "F 'J B IA IFJ A(P AEE"K EF J IF IA J J 'G BA" A A IAD $G 9" UFBA I X IA 'A A EPGOA G 'A J EIG 'G FB"A G J GM IA / F 'J ' 9" UFBA I E GP ' G ' IA X FE EG MF M GD IA CG 'EA ' GM F 'K CG 'MAJA FCK FNF 'E IA IF EIA FE CA F '"K PA E FJAJ IA E E A IFJ 'G EG IG 'G FB"A F 'J A F EA F ' ' #CG "F 'J + A # " F A(CAP AJ I D BK 'FDA G

, @ I$B : 9 >' = : ! @E$ ' ; @ 'KQ ' / : :$x(: >' 6 : D @ ' ; @ 'U Y ' Y ' ' ' !>' 3 : D:C :<' < F >

! I " P FE IA G'A #CG EI 'GB"ADF' IGEA BAIF G / 2 $2
' F"" IA F'EFC G'E I CI IFJ MG""G AJ IA D JA TOP
IFJ BAA' AP GFCIFB"A

>A IFJ MG 'J 'G " "A J M"#C " K ' AECFP 'N
M GD ! F'CA =F IA 'A IG A NI KAF E BAMG A
IFJ AJ G NF ' I D 'G A'A AJ IA G A AE
I 'C AFEAJ AF 'AE 'AEE FE DG A F'J DG A EIA
O'A IF IA FE IA G'"K DF' IGEA ' AN K
CG "J BA A" AJ G' F'J IG FE EIA IGPAJ IFJ BAA'
J G CAJ M GD I E 9'N" EI EKDPF I AE BK 9" UFBA I E
.' EFNA GM' I D #IA GMMA AJ I D F'O PA'E G' PG A
IA #CG CI 9ANA'CK A A' IA #CG CI = G ' EIA G "J
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IFJ 'G B" 'JAJ I D G IA FJ F' FNAE GM' IA 9'N" EI
F"" F'CA G #CG "F'J F'J IA DA =F IA 'A E FJ F'CAE
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'' 9 'N"F'J I E G'A GBHAC FE G AFCI I E G '
CG ' K I IA "AFE PGEE B"A JA"FK ! A IFJ
MG DAJ 'G EA "AJ P"F' >A O'A F '"FE IA M "" DFN
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"A "A A E G %G I A"" IA IFJ ACA AJ F'' FCC F A
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P A A' I E M A'JE M GD B AFO 'N I 9 'N"F'J
FE 'ACAEEF K MG I D G PFEE FNF '' I G NI -G'JG'
9" UFBA I EA' MG I D F'J EPGOA G I D '' F E K"A
I CI IFJ IA BAA'' CFPFB"A GM AEA' DA' D NI IF A
ADP AJ I D G ACG'E JA I E ' A' G'E >A' FE
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>A DP AEEAJ JA # " F I IA A K I NIAE GP ' G ' GM I E CIF FC A F ' J IA DP AEEAJ 'G "AEE MF G FB"K E CI GM 9" UFBA I E T ' E A E FE EPGOA I I D # * F" A T "JDFK I IGD IA EPA ' F ' N I G ' I E FK JG ' G #CG "F ' J MG 'J I D X A K EA F ' J E ""

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"C A K A"" FMMAC AJ G IA DF ' A'F'CA GM M A'JEI P BA AA'' IA G AF"DE/ XCG' A' ' G MG NA ' I E G ' PF C "F ' N AME ' F' J' EI 'O 'N G'"K M GD' IA AEPG'L E B" AE I CI' A A' F 'N MG ' I D

%AJMG J/ IGD' IA' EF ' F ' %A CO ' MG 'J' I D' X 'A IA ' G A ' P M " 'G ' G A ' C A"/ ' 'C" 'AJ ' F ' F"" A A' E' G P A A' ' IA' R AA'' M GD' BA 'N' P ' G' JAF I ' B ' AM E 'N' G' CGDD ' I DEA"M M IA \ D CI ' '' MFC ' '' %AJMG J E G '' I DG ' F' J' E CI' FE' IA' IG"" K' FPP G AJ

TAF' DA' A A' E' '' #CG "F' J' IFJ' BAA'' DG 'N' I' FCCA"A F 'N' EPAAJ' 9FCI' PGE ' I CI' CFDA' '' M GD' 9 'N"F' J' B G NI ' M A CA ' I AF E' M GD' 9" UFBA I ' I CI' F"" IA' F ' 'NE' GM' IA ' =G 'C " CG "J' 'G ' P A A' ' IA ' M GD' EA' J 'N' ' D NI ' IF A' BAA'' F"DGE ' E PPGEAJ

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IF I AM 'AJ 'NA' K EIA FE CIGGE 'N IA DAF'E 2
DGE " OA"K G B 'N FBG IA CF FE GPIA I CI EIA
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$IA "A A E M GD 9J 'B NI A A F"" G IA EFDA P PGEA IF IA "G JA 9" UFBA I DA'FCAJ IA DG A GBE 'F A BACFDA IA -G JE $IAK G "J G"A F A 'G ' A MA A'CA BA AA' IADEA" AE F'J IA DP EG'AJ R AA' FE F #CG EI Q AE G' I CI #CG E F'J #CG E F"G'A EIG "J JAF" I $IAK G "J EA'J IA " "A `FDAE G BA AJ CF AJ ' 9'N"F'J \ B G' G'A CG'J G' G'"K

X -A KG R AA' EF J TF "F'J G IA 9'N" EI DBFEEFJG X A(F" G ! 'CA G IA E CCAEE G' GM IA C G ' GM 9'N"F'J MG MF " GM EE A GM IA TFHAE K E BGJK $IF FO 'N P"FCA IA EIF"" BA FE JAF G IA PAGP"A GM 9'N"F'J FE G IA PAGP"A GM #CG "F'J F'J IA G'A "" BA FE CF AM " MG I E P AEA F G' FE IA G IA) IA EA "" BA APG AJ IF IA #CG EIDA' IF A P IA ! 'CA G BA OAP ' EFMAo FE IGEA IG CGDD IA EIAAP G BA OAP BK IA G" AE

) ' IA KN I GM ` "K F M "" DAA 'N GM IA =G 'C " FE IA"J ' IA $G"BGG I $I GNDG G' CGDPA""AJ G GBAK IA 'E C G'E I CI IA ACA AJ M GD IGDA JADF'JAJ F J A'CA F'J ' I E D E AEE E 'FDA AL Q AJ IAD MG DF""K G A"AFEA IA R AA' * IG

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X ` E NA' D' FE A"" FE P ACAJA' IA A D NI PA IFPE BA MG IA AEEA' F"E GM I E P GCAAJ 'N $IA JGC 'A GM IA AEPG'E B" K GM P 'CAE G IA E BHAC E IFJ BAA' P AFCIAJ I K KAF E BAMG A BK ?AN 'F"J !G"A IA' IA =F IG" CE A A F EE A I

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DA' GM F MG DF" CG ' I CI F P 'CA AN'F'
CG "J BA 'J C AJ FE F 'A MAF A '9 GPAF'
I E G K $IA DAEEA'NA CIGEA' G CF K G -GCI"A A'
IA ' DF G' GM IA =G 'C "E ' A' G'E FE IA
NNAJ - 'JEFK IA DF' GM MA G JE IG G "J IF A
MG NI %G I A"" F =F BA K F'J IGD TF K # F
IFJ E G ' G IF'N 9 I A' A' I I D EG' GM
IA IF J AF " IG IFJ BAA' IA M E G EA UA ? UU G
' IA CFB 'A F'J ?GBA TA" ""A IA J P"GDF E
$IAEA I AA AP AEA' AJ IA I AA PF AE ' G I CI
IA G JE A A J JAJ - 'JEFK FE IA DG IP ACA
GM IA M A K UAF"G E GM IA EEADB"K/ ? I A' BA"G'NAJ
G IA DG A DGJA F A MFC G' GM TG G' F'J TF /
I "A TA" ""A FE IA EAC A FNA' GM TF "F'J F'J
$I GNDG G' CF AJ F 'G A M GD IA "F A CG'CAF"AJ
' IA ECFBBF J GM I E E G J FJ E 'N TF K G CGDP"K
I F'K JADF'J I CI EIG "J BA P AEA' AJ G IA
F'J FEE 'N IA IF 'G FC I CI EIA D NI JG 'JA
E CI CGDP "E G' CG "J P AH J CA IA NI E
#IG DA FE F""G AJ IA MG AM"AC G' $IA
EFDA DG ' 'N G' I CI IA =G 'C " CGDD ' CF AJ IA
P PGEA G IA 9 'N" EI T ' E A - 'JEFK APF AJ
G -GCI"A A' !A E FE G' FE G BA AJ M E F'J
TA" ""A FE FJD AJ F"G'A G IA R AA' E P AL
EA'CA >A MG 'J IA E "" 'B GOA' \ F DAE JAEPG'JL
'N F DAE X EPAFO 'N FE E G G JE FE A A EIA
J J >F 'N F' 'A(PAC AJ GPPG ' K GM EPAFO 'N
P F A"K G IA IA NF A IA $I GNDG G' E DAEEFNA
F'J FJJAJ F'G IA J AC "K M GD 9" UFBA I I I CI

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IA IFJ BAA' CIF NAJ F"EG M IA FE FB"A G N A /
IF X F F"" DAE EIA D NI CG ' PG' F E A M A' J '
;@ -N IA R AA' GM 9 'N"F' J

$IAEA MF F" G JE\ IA P DA CF EA GM 9" UFBA I E
"G 'N GJB"AE ' FM A KAF E\ X A A 'G EDF"" CGDL
MG G IA ' IA 'N AM ' #IA EF J EIA G "J F IA
BA ' 9 'N"F' J 'JA 9" UFBA I E P G AC G' X IF'
GB" NAJ G F 'K P 'CA ' =I E A' JGD > A P G J
B"GGJ BG "AJ F IA 'J N' AE I CI A A I E
PG' IA F' J ' IA M E PFEE G' EIA MG NI M A CA"K
FNF 'E F"" IF TA" ""A CG "J NA % I E F N L
DA' E CG P"AJ I IA J AFJM " ACG""AC G' GM IA
'JFK ' NI I CI MG""G AJ IA CFP A F =F BA K
G"J F "FE PG' IA $IA =G 'C " IFJ EA' I AA
'E DA' E MG IA E N'F A\ 'G'A IA G ' FBJ CFL
G'/ F'G IA ''FD 'N H A 9F " GM T FK ?ANA' G
M T FK EIG "J AM EA IA GMMA AE 'N IA NG A 'L
DA' ' F =G 'C "/ F I J ADPG A 'N - 'JEFK F'J
IA 9F " GM TF F' J TG G' G P GCAAJ G IA CG G'FL
G' GM IA EG' ' IFE BAA' EF J IF IA' IAK A A
"F J BAMG A IA F' J EIA IAE F AJ G E N' IAD - 'JEFK
C" CIAJ IA F D F' J "AM IA P ' GM I E NF ' "A AJ
IF' J PG' IA M"AEI / IF IF 'N DDAJ F A JAF I
BAMG A IA M EIA AM EAJ EIA G A IA 'FDA F "FE
I F ECG 'M " F"" E G' G I E B F" K F' J F CG'L
ADP G E ' DF G' GM IA G I"AEE' AEE GM CG' CAEE G'E
EG A(G AJ $IA E G K AE E G' MF ' F IG K M
IA R AA' GM # G E IFJ I ' AJ IF EIA G "J 'G CG'L
E JA IA EA"M BG 'J BK IA FC G I CI EIA FE EA 'N
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TOP
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>G A AM FE\ IA IA ' MAF G FE E MF DG A
" OA"K A"K 'N EAC A "K G' IA FEE F'CA IF F' FBJ CFL
G' GB F 'AJ M GD IA ' IA P AEA' CG'J G' G "J
IF A 'G"ANF" F" J K\ EIA E N'AJ IA PFPA E F'J - 'JL
EFK A 'AJ IA EFDA ' NI I IAD G 9J 'L
B NI VA IA PA " FE ECF CA"K J D ' EIAJ $IA
'E DA' MG IA CG G'F G' GM IA ! 'CA FE
'JA E GGJ G "J BA DDAJ F A"K FC AJ G' =G'L
EC G E GM IA AMMAC I CI E CI F' FC G "J P GJ CA
G' 9" UFBA I $I GNDG G' ' A CAJAJ I TF "F'J
F "AFE MG F MA JFKE JA"FK TF "F'J EF J IF MG
I DEA"M IA EIAJ IF IA R AA' GM 9'N"F'J EIAJ/
B X IA FE ' P"FCA G O'G DG A IF' $I GNDG G'
O'A F'J M $I GNDG G' DAJJ"AJ G EAJ X I AF L
A' 'N EPAACI G "J BA IA R AA' E JAF I F F'
F'J IA CG "J G'"K ' AF I D M IA F" AJ IA P AL
EA F G' G BA E "A') ' IA FM A 'GG' GM IA KT I
IA FE CG'J C AJ FNF ' G IA $G"BGG I

$IA A E GGJ G EF A BAMG A I D IF E AD BGJK GM
M A CA DA' \ EGDA IG ' IA MA G GM NGJ" 'AEE IFJ
DFJA IA #CG EI ?AMG DF G' \ EGDA IA DGE GM
IAD IG IFJ P"FKAJ I MG DA A G "J"K P L
PGEAE B IFJ F"" ' AJ G' IA P PGEA I CI IAK
IFJ IA' ' IF'J $IA A IAK A A AF "E BF G'E "G JE

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IA R AA''DK'#G A A N'' IF I' N AF'
'KG 'NGGJ'F'J' A" A A'KG 'GM
KGD 'CF"FD K'F'J'PA "' I CI' 'M 'J
N AF A ' IF'' DK'#G A A N'
JG I'E EPAC ' 'BAIG A I' '
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2 F ' J NA ' "ADA ' ' F DG A A K G ' A I IA "G ' N
BGG E F ' J "G ' N E AA EP E AFJK G DG ' ' F ' J JA
35 >A FE G"J B AM"K IF IA R AA ' IFJ AE N ' AJ IF
IAK A A NG ' N MG I I G # " ' N G C G ' IA
! ' CA yM"J IA FE ' AJ G FCCGDPF ' K IAD
G IE F ' J ' N TF "F ' J E CF G ' IA JF AJ ' G BA
E "A ' #G"AD ' "K ' IA ' FDA GM I E D E AEE IA P GL
AE AJ FNF ' E F ' FC I CI G "J B ' N JG ' PG '
IAD IA ' J N ' F G ' GM 9 GPA ' I E G ' PA EG '
IA P"AFJAJ I E CI GM IAD FE IA P F A"K O ' A G
CG "J IGPA G ' M" A ' CA "AFE IA NAJ IAD G
F MG IA A ' GM T FK / F ' J FE G IA CG G ' FL
G ' IA JAC"F AJ IF IA ' A IA D NI ' ' G G "J BA
P AEA ' F F ' K E CI JG ' NE

$IAK A A P APF AJ MG I E ADG ' E F ' CAE F ' J P AL
PF AJ G JAMK IAD $IA "G JE IG EF A ' M G ' EF J
B AM"K IF IAK D E JG IA J K / IA AF"D CG "J
' G BA "AM IG F P ' CA F ' J IA NG A ' DA ' G "J
BA FJD ' E A AJ MG IA M A X BK IA EAE GM IA
' GB " K "G J C K GEA M GD IA C G J GM NA ' "AL
DA ' IG E GGJ BAI ' J IF X IA AF"D CG "J ' G BA
NG A ' AJ G EA IF ' I FJ BAA ' / IA R AA ' FE
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$IA -G JE GEA / X TK -G J IAK EF J X A "" G B"A
KG ' ' G M IA / IA JFK PFEEA I F FK F ' J A IF A
MF G JA $IA IG EAE A A BAMG A IA NF A / IAK
DG ' AJ F ' J I^ G ' CF F"CFJA E AFDAJ F FK FC GEE
IA 8 FEEDF Ob $I AA JFKE "F A EG MF FE E BL
HAC E CG "J DFOA G ' DFOA IA EG A A N ' IA A N '
GM `FDAE I FJ CGDDA ' CAJ

$I GNDG G ' CG "J G ' "K A G AQ AE I E ACF" "
>A J AFJAJ ' G IF 9" UFBA I G "J AP"K G EG JF ' N
F CG ' ADP GM IA CGDDF ' JE BK EGDA GPA ' FC GM IGEL
" K / F ' J IF IF A A A "EA D NI CGDA GM T F K

F E JGGD G "J IA' BA EAF"AJ X E IA CFEA 2
E F' JE I I E D EA FB"A R AA' '" A G A IA DG ' 'N TOP
FM A IA -G JE JAPF A X EIF"" BA G" "A P PGEA `"K35
G DA G IF A FCCAEE G IA G G AF I IA FCCG JL
'N G DK 'E C G'E E G IA MAF AJ IF I E
FNAJK """ A' J ' IA R AA' E PA EG' FM A I E CG G'FL
G' FE J J BAN ' ' IA PA EG' GM +F J IA F" F'
F' J IA R AA' E I EBF' J

VA $I GNDG G' E AMMG E IFJ PG BAA' IG""K I G '
F FK TF K # F E " G' A FE"GE ACG A FB"K F' J
IA '" MA FE IF' N 'N BK F I AFJ/ B BG I' IA '" MA F' J
IA A(PGE A F' J 'MFDK I CI G "J FCCGDPF' K IA
P B" C F" D NI KA BA P A A' AJ M 9" UFBA I CG "J
G' "K BA OAP Q A $G I E TF K # F E BAE M A' JE
' #CG "F' J F' J 9" UFBA I E EAE T ' E A E F IGDA
IFJ 'G G FJJ AEE IADEA" AE

7GBA TA" ""A G A J AC "K G IA R AA' GM9 ' NL
"F' J \ X * IF DFK KA MF"" G G IA G E IA EF J X
FD ' N AF JG B VG TFHAE K DFK BA ADADBA AJ
IF F DK "FE BA 'N I KG > NI 'AEE MAF AJ I E
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A N' E AF" IF' BK NA' "A JAF" 'N I IAEA -G JE '
IGEA IF' JE " AE BG I G EF A F' J G EP "" $IA N AF A
' DBA BA EG BA' G' NG FNF 'E DK D E AEE IF
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IFJ 'G BAA' P AEA' IG J J EG A BG I' I E EJGD
F' J FMMAC G' G IA TFHAE K IF IA G' "K J J P FE JA
IA P AEA' 'CG' A' A' CA F' J J #G P GC A IA
DF A FE BG I" MA F' J IG'G IF A BAA' P AEA AJ

! AEA AJ IAK A A MG IA DGDA' / B I' IA
M E DG A GM F' 9 'N" EI EG"J A G F JE #CG "F' J \ I

$I GNDG G' G =AC "' ` "K ! < + :@E @@:' > ,@ I$B: 9'
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6 ;H V " A M E EKDP GDE GM F' FC A ' A' G' G AE G A TF K # F G " A I P' A - H MG CA \ FE AQ F""K CA F ' IF IAK G "J' 'G IA P AEA AJ $IA -G JE G "J 'G A(PGEA IADEA" AE G IA EO GM F 'K E CI CG' 'NA'CK $I GNDG G' 'G JF 'N G FJJ AEE I E D E AEE IA EA"M FPP" AJ I DEA"M G -A CAE A X >A CG "J B JAP"G A IA EF J X IA JF'NA G E J ECGDDG J G E GP ' G' ' I CI IA TFHAE K IFJ M (AJ IA EA"M F' GP ' G' I CI G "J BA F G'CA PG" CF""K 'G E G 9 'N"F' J F' J MF F" G TF K # F IA EA"M X * IAL IA FE MAF M K G UAF" I CI IFJ CF AJ IA -G JE EG MF IA CG "J 'G A"" B I E IA X CG "J BG"J"K FMM D X IF 'G I 'N G "J EG EGG' IFE A' IA JAF I FE IA JG B IF IA -G JE D NI CG'CA A GM IA AJADPL G' G " BA K F' J F IG K BK IA R AA' E TFHAE K E F J N

' 9 'N"F' J IG NI I A(ADA J MM C " K F' J I B " D AJ DAF'E IA =G 'C" A A "FBG 'N G IA EFDA P PGEA 9" UFBA I MG F DA EAADE G IF A BAA' A "K 'NG A 'FB"A >A DFN 'F G' IFJ PF ' AJ F ECIADA ' I CI EIA FE G FPPAF FE F BA'AM CA' MF K CGD 'N G GM IA C"G JE G AEC A F' A 'N B ' ' IFPPK E E A F' J AE G A IA G IA AE F A I F IG"AL EGDA "AC A G' IA PFE D ECG' J C FE F' F L JA P"AFE 'N G IA MF'CK F' J N F MK 'N G IA P JA F' J F"" FE EIF A AJ G IA N G 'J $I GNDG G' 'G "G'NA A A' EIAJ G EAA TF K # F $G AFJ G IA 9" UFBA I FJDG' G' X FPPAF AJ GG IF J CG'E L JA 'N IA CF"FD K F' J ADP F G' F' J IA P G J R AA' IG CG "J 'A A AF" EA IF IA #CG E A A 'G IA G ' E BHAC E IAJ 'JA IA JAMAF

' *9<>F8>< > ' >' 3: D:C :<' @ 'M Y ' '

=AC " IG 'JA E GGJ I E D E AEE BAE A' AJ G'"K Q A ADG'E F'CAE X IA' GPPG ' K)MMA AJ EA"M F'J DGJ M AJ IA G"A'CA I CI IA CG "J 'G IG""K CIACO $IGEA IG A A F F J E F'CA M GD IA =G A A DG A G EPGOA' # * F" A T "JDFK X CG "J 'G CG'CA A IF DG AJ IA R AA' G E A FNF 'E IA E AFD F'J G B"A IA EA"M I ''ACAEEF K Q F A"E $IA 9F " GM %AJMG J M GD %A CO ADG'L E F AJ G' N G 'JE GM P B" C DG F" K F'J 'E E AJ G' IA P FC CF" D ECI AM I CI FE F" AFJK AE " 'N M GD %G I A"" FE E .' F'"F NA $IA F' GM EA "AJ NG A 'DA' ' #CG "F'J IFJ "A "GGEA IA %G JA I A AE IG A A I E E G ' M A'JE F'J F"" AE/ G' IA T I GM ` "K X BK P GC ADA' GM IA 9F " GM %G I A"" F IG#EF'J IG EA IFJ C GEEAJ IA DF CIAE F'J P ""FNAJ G I DBA "F'J/ KA BACF EA IA %G JA I A AE CF""AJ IADEA" AE IA R AA' GM #CG E M A'JE 9" UFBA I IFJ J E 'C "K MG B JJA' IA 9'N" EI DF CIA E G A F" F A X $IA DF CIA E EIA IFJ G"J %AJMG J X CG "J 'G BA F"L "G AJ G AJ AEE IA G ' 'H AE/ 'G G "J EIA PA D IA AN "F MG CAE F %A CO G AJ AEE IAD A IA "AE BK IA H E A(AC G' GM IA %G JA "F E EIA EIG "J"A'J A A I E ADG A EADB"F'CA GM CG ' A 'F'CA G IA -G JE $IA F JA'E F""F"G'N IA" 'A M GD =F " E"A G %A CO IFJ A' MG 'E C G'E ' F'NA F'J PA P"A(K A A ' F"" ACA' A(PA A'CA IFJ IA %G JA BAA' 'E CI CG'M E G'/ KA 9" UFBA I E J EP"AFL E A IFJ BAA' AEA AJ MG %AJMG J IGD EIA FCC EAJ GM IF 'N FOA' PF FNF 'E IA R AA' GM #CG E $IA

' ,@ I$B: 9' >' ':=?><=' ;@ ' K ;@ ' 'M' ':=?><=' >' 6:D @' ;@ ' T'
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TOP MA E

G"J 9F "P G J"K FCO'G "AJNAJ IA I GM IA CIF NA X * EI 'N IA -N JE A"" IA EF J X CF''G I EFK IF IF A MF G AJ IAD F'J IA FC G'E BACF EA EAA IF E NGGJ F'J IG'G FB"A F'J IA R AA'E JG 'NE FBGD 'FB"A F'J G BA JA AE AJ

G "J IF A BAA' A"" M 9" UFBA I IFJ AE AJ IA A/ B FM A IA CG' A EF G' I T FK F'J 'G '" O 'N IA "F'N FNA ' I CI IA AP" AJ G IA DA'FCAE EIA A' AJ PG' F E AP I CI M IFJ BAA' " OA"K G E CCAAJ \ FE ' IA A'J'F'J IA''C C DE F'CAE CIF'NAJ E CCAAJAJ B GG MF F""K \ D NI IF o C AF AJ F'J FE ' A'JAJ G C AF A F C " F ' ' #CG "F'J #IA IFJ J AC AJ $I GNDG G' IA' EIA EA' I D G' I E CGDD EE G' M IA MF "AJ I IA =G'MAJA F A -G JE G FJJ AEE I DEA"M G IA >FD " G'E #IA IFJ BAA' F 'AJ GM IA NFDA I CI IA >FD " G'E A A P"FK N B EIA BA" A AJ IF EIA CG "J ADP IAD I G NI IA FDL B G' G JAC"F A IADEA" AE MG IA R AA'/ F'J I "A $I GNDG G' FE B EK I IA -G JE EIA F ADP AJ I G NI EGDA G IA FNA' G G O PG' IA FJ A L EF AE >A FJ F'CAE AA 'G E CCAEEM "

X n'JA E F'J BK'F A K'E b M A'J %AJMG J G A G =AC "' X IF IA T FHAE K JGAE G O I IA !"FD " G'E FNF 'E IA -G JE F'J IF EGDA IF IFE BAA' GMMA AJ G IAD ' IF BAIF"M >A T FHAE K IFE EPA' D CI DG'AK G J IA @ A'CI G GM I E CG ' K F'J I E E IA 'A(FK G B 'N IAD ' FNF ' F'J B AAJ IA T FHAE K N AF J EQ A AEE ' IA A'J \ IF A"EA JF A 'G EFK >A T FHAE K E F JEA P 'CAEE F'J KG F'J IA AE BA EA CG 'C ""G E E EGG' FE IA >FD " G'E 'JA E GGJ IA AGM IAK EA' G IA -G JE F'J GMMA AJ IA EGG'A G FN AA/ EG IF I E " "A FE EF AJ MG

I E FE IA FK G IF A G'A #CG EDF' C F'G IA E I GF

$IA AMMAC ' 'J CF AJ BK %AJMG J FE B G NI DG A P"F '"K BAMG A $I GNDG G' IG I DEP"M F"EP O'G 'N IF 9" UFBA I A(PAC AJ GM I D IFJ P G MAA"A E ' IA EFDA J AC G' $IA >FD " G'E FE %AJMG J "K EF J DDAJ F A"K BA FKAJ G IA -G JE IA FJ F'CAE I CI IFJ BAA' DFJA G IAD #G "J 9" UFBA I E DG ADA' E EAADAJ G BG I PF AE IF AFCI FEE DAJ EIA D E BA 'M" A'CAJ BK EGDA E ' E A DG A $IA >FD " G'E DFN 'AJ IF EIA EIAJ G AFOA' #CG "F' J BK F C " F / TF "F' J IG DG A AEPAC AJ IA FB " K IF' IA P 'C P"AE E EPAC AJ IA GM ~D ' E J G E JAE A G P G GOA IAD G DFOA I E F' A'J GM IA R AA' f

%G I CG'C AJ ' BA" A 'N IF EIA DAF' "" G IAD F' J G #CG "F' J F' J ' CG'EAQ A'CA 'E F' F' J E ' E A G A AE CFDA ' M GD F"" IA 'GB"ADA' IG IFJ I IA G IA"J F"GGM M GD IA =G'MAJA F AE $IA A GBHAC E GM IA >FD " G'E "G'N E EPAC AJ 'G BANF' G

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' 9:' O 9' >?' & ; F ; C ' 3: D:C :< <> :' >' 9 8' >'C$ ' 9$ ' 9:< + $\ :C ' = =' @@' 9$ ' 9:' C9>;@=' 8$@ :' $@@ C:$<D9'$ =' : L ;< ' >' J > ' 9$ ' H$< ' 8 F9 ' 9>' 8$=:' ?><' 9:' %; : : ' 9: 9:< 9:' 9>;C:' >?' / $ 8 @ > ' = =' C $ =' ?>< 9:< >< >' $ =' 9$ ' $C' 8 ;D9' : D>;<$F: 8 : ' $C' $C' H>C\ C B@:' 8 F9 ' B:' F E: ' >' 9: 8' ?>< 9: < B: :< 8$: $ D:' 9:<: Y ' +'

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>;' 9$ 'C: : J' >' B< F' 9:< :$ 9' >' H$CC' 9$ ' C9: ' C>:E:< 9:' %; : : ' >;< 8 C <:CC' $ =' >;' =>' 8$J :' >' C$E:' 9:< @ ?:' $ =' C: ' 9:< $ ' @ B:< ' *9:' / $ 8 @ > C' $ =' >;' D> D;< >\ F: 9:<Y >;' 9$<:' > 9 F' ' >;< 8 >; 9C' B; ' @ B:< ' $ =' > 9 F' @:CC' ' >;< 9:$< C' ' 9$E:' 9:$<=' 9$ ' >;' 9$E:' C$ =' -' 8 : ' ' $CC;<:' >;' ?' >;' C9>;@=' ;C:' 9 C' CH: :D9' ; >' 9: 8' 9 D9' >;' =>' ; >' 8 : ' $@@ 9:' ><@=' D>;@=' >' C$E:' 9:' %; : : C' @ ?:' 9<: :' =$ C' >' $ ' : =Y $ =' C' 9:' D$C:' C $ =: 9 ' ' @@ 9:' 8 ;D9' $=>' >' C$E:' 9:< @ ?: Y F - ' ' " K + ' & ; F ; C ' Q' ' /

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C IAK CF AJ D CI MG IA N AF 'AEE GM IA IG EA F'J
N E EGDA I 'N IAK CF AJ MG #CG "F'J $IAK IFJ 'G I DG
G M "" IA CG ' K I B"GGJ G P"AFEA IA X F "J A'L
AD AE F'J M IA=G'MAJA F A-G JE G "J AEG" A M 'F""K
G FBF'JG' IA JA AE AJ F"" F'CA I 9'N"F'J A ' G
IA G"J FJ G'E FCCAP @ F'CA MG IA PF G' F'J
FJD IA >FD " G' E CCAEE G' IA P EG'A F -GCI"A A'
D NI CAFEA G BA F J MM C " K >A '" MA ' MFC FE IA
G '"K GBE FC"A G F' DDAJ F A ' G' GM PF AE * A A EIA
G'CA JAFJ 'G Q AE G' CG "J BA F EAJ FBG IA #G
"G'N FE EIA" AJ IA A FE I^ MAF IF EIA D NI G'A
JFK BA AE G AJ BK 9" UFBA I/F'J M IA" FDH" G'E CFDA
G A G IA -G JE I "A I E JF'NA CG' ' AJ X IAK
G "J "GEA IA IF'OE MG IA MG DA A"" JG 'NE
'C FE D CI JF'NA FE IGEA IG IFJ BAA' M E F'J
JAAPAE ' IA FC G' FNF 'E IA F'J E MMA DGE IF 'N
DGE G "GEA X -A IA -G JE P GCAAJ IAK EF J X"A
IAD P G JA MG IADEA" AE F'J E CI FE G "J HG ' I
IAD IF IAK EIG "J CGDA G 'G JF'NA G E ACOG' 'N
\ _DAF' 'N IA ABK IA J EPF CI GM IA R AA' MG IAK
EF J IAK CG "J 'G IG'G G E 'E& F'J EIG "J 'G
BA "G'N A A IAK G "J FCCG J F'J ' F"" G'A CG EA
$IAEA A A IA G JE I CI G' IA Q I GM N E A A
APG AJ G $I GNDG G' BK T FK GM $ "" BF J 'A FE
F CGDD ' CF G' I CI IFJ BAA' H E ACA AJ M GD IA
CG ' A CG'MAJA FCK F >FD " G' =FE "A $I GNDG G'
IFJ IAF J EGDA I 'N GM BAMG A $IA CIB EIGP FE
EF J G IF A P GDG AJ IA %G I A"" DF FNA DA A"K G
' IA R AA'/ KA EA"M EI'AEE F'J BFEA'AEE EG P GL
MG ' J EAADAJ ECF CA"K C AJ B"A IA' "F J G ' B"FCO
F'J I A

X # A"K $I GNDG G' EF J X IA >FD " G'E CG "J
DFOA DG A BK IA R AA' E " MA IF' BK IA JAF I

$IAK D NI DFOA F BA A BF NF ' BK DF K 'N IA G IA -G J GM B GF I

$IA F" A 'F A IFJ BAA' CG'E JA AJ $ "" BF J 'A AP" AJ B FM A CF AM IG NI IFJ BAA' "F J FE JA X $IAK EF 'G EG NGGJ ' G NF A BK I E JA CA FE BK /IA R AA' E JAE C G' / MG EIA BA 'N FOA' F FK IAK FCCG ' AJ B IA " "A 7 'N BA (IAD F'J IGDA $IAK"G AJ 'G IA R AA' IAK O'A EIA IFJ 'G N AF MF'CK G F'K GM IAD F'J IAK I E D CI MAF AJ IA IA DG A BACF EA EIA FE KG 'N F'J D NI IF A DF'K CI "J A' I CI FE IA I 'N IAK G "J BA J GM

X TK -G J IACG' ' AJ FE IA EF $I GNDG G' E "" IF"M 'C AJ "G E X 'A A FOA DA MG F A NA' "ADF' M I E BA 'G A IF A"" KG $IA CIB EIGP GM # ' J A E F'J IA BBG GM 7 " ' ' 'N IF A P GL PGEAJ I E D CI G DA I ' IAEA MG K A NI IG E

$IA E BE F' F" I GM $ BF J 'A E G JE FE AFE "K FECA F 'AJ %G I IA >FD " G'E F'J -G J " ' "K IFJ DFJA IA EFDA P GPGEF"E IFJ E NNAE AJ IA EFDA DAFE AE I G NI EAPF F A DAEEA 'NA E/ F'J PA L P"A(AJ F'J MF F""K J EIbF A AJ $I GNDG G' A' G'CA DG A G TF F'J TF "F'J G' IGEA NA'A F" DGJA FL G' IA BA" A AJ IF IA CG "J A"K @ GD 'A IA GM IAD IG A A CG "J IA NF IA F'K CGDMG TF G"J I D IF IA G "J JG IF IA CG "J MG IA R AA' ' IA FK GM PA E FE G' X B G EF A IA " MA IA EF J X BK A' JF 'NA 'N IA EG' G I E AE F A G BK BA FK 'N DK DF G E "" 'A A JG DK -G DBFEEFJG MG F"" IA NG J ' IA G "J f

TF "F'J FE ECF CA"K "AEE J ECG FN 'N F'J AP" AJ G I E FPPAF" I DG 'M "B A 'AEE

' 4$: ' / $8 @ > _ *9<>F8>< > ' >' 3: D:C :<' &;\
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X TK - G J IA EF J X A O 'G F"" IA NGGJ P PGEAE
O P X I CI IF A PFEEAJ BA AA' KG F' J IA >FD " G'E F' J
N E _HM NK"A F' J > ' "K VG O'G IG IF A
P GCAAJAJ I KG E 'CA KG CGD 'N I IA / IF A
N A' KG IA BAE FJ CA CG "J G P A A' A(AD K
F' J A IA IA R AA' KG #G A A N' "" 'G BA FJ EAJ
G KG JG MG BAF G FJ EA IA EFK ' G KG FE
FD F =I E F' DF' M A - CI IF A JAF" ' I E
FC G' G "J CG 'EA' G FOA IA R AA' E " MA M GD IA
F"" IA "G JE I CI IG"J G F' J" A F"GGM M GD E G "J
CGDA F' J HG ' I E I ' G JFKE TK - G J
DBFEEFJG M KG EIG "J EA IA EPAACI G IA - G JE
I CI KG JG G DA F"" IA G "J CG "J 'G EF A IA
R AA' " MA I AA JFKE G F' A' J
"A'N I F' J FM A AF K A(PGE "F G'#H $I GNL
DG G' E CCAAJAJ ' A(FC 'N F P GD EA X IF IA
GAM " R AA' EIG "J 'G J A F G"A' JAF I '"AEE
EGDA 'A FCC JA' GCC AJ BAMG A IA CGD 'N GM
T FK IG FE 'G JF "K A(PAC AJ FE I NI
DA 'JAAJ MG T FK G F A $ G JFKE FM A IA A
FE F ECA'A F * AE D 'E A I CI M IA - G JE IFJ
IAF J GM BAMG A T FK FE G' IA EPG G CG' G"
IAD G "J IF A BAA' IA E N' F" MG IA M 'F" C"GEA GM
TF H # F E AF I"K E MMA 'NE) ' IA ' I GM
N E X F MG G C"GCO ' IA FM A 'GG' 9" UFBA I
EA' MG =AC " X F' J A' A AJ ' G F N AF GMMA'E A EPAACI
AP GFCI 'N I D MG IF 'N FE KA CG' AJ 'G DAF'E
MG IA AEC A G P G AC G' GM IA R AA' GM #CG E
=AC " N 'N A FE A F'E A E IA R AA' P GJ CAJ F
"A A I CI EIA AQ AJ I D G EA' J G $I GNDG G'
FE G 'MG D IA - G JE IF IF A A G IA ! 'CAE

' *9<>F8 > > ' >' ,@ I$B: 9 '&;F;C 'Q' *9<>F8 >< > ' >' 6:D@ '&;F;C 'Q
J9 BB 'BC$ & +

D NI JG G MG BAF G JG EIA MG IA EA"M X M IAK CG' (
 ''AJ G OAAP IA EG A A N'' P EG' G EIG "J JG TOP
G JA EA F'K I 'N IF D NI G CI IA '" MA G PA EG' NE
 G "J A A'NA G IA A DGE PG'E CI FE EIG "J
IA '' F'K EA N " K IA AGM #IA G"J =AC " IF EIA
 G "J DDAJ F A"K JAC"F A F #IA 'E E AJ IF
$I GNDG G'' EIG "J JA" A IA G JE FE F'' DDAJ F A
DAEEFNA M GD IA EA"M F'J IF X FE G 'J"K F'J HFE
EIF P"K FE IA CG "J MG IA CG "J 'G A(P AEE I
DG A AIADA'CK IF'' EIA J J DAF'' F'J ' A'J
  FE =AC " E J K G EPAFO P"F '"K F'J M G E FE
9" UFBA I FE/ IA J J 'G IAE F A >A A(IF E AJ A A K
O 'J GM J AC F N DA' "A'N I IA'' 'G I 'N
 I C% IA CG "J EFK G "J DG A IA IA E NNAE AJ IF
TF "F'J IFJ F" AFJK I ' AJ FE IA BA" AM I CI FE
N G 'N P '' #CG "F'J X $IA DF" CA GM IA G "J
 G "J EFK IF EIA IFJ EAJ EA A K G IA -G JE G
 NA IAD G J F FK IA R AA' # CI F'' ' A P AL
F G'' GM IA CG'J C IFJ HG GCC AJ G IA @ "" GM
IA DDAJ F A GBHAC EIA IFJ MG NG A'' IF IA PFE
F M CAE D NI ACG " PG'' IA IA'' EIA "AFE JAL
EA AJ #IA IAE F AJ F'J F IA DGDA'' F''
GPPG 'A PFCOA CFDA '' M GD 9J 'B NI FEE 'N
IA IF F E 'N"A IGE "A DG A G "J BA IA R AA' E
JAF I F F' 9 A'' I E F'J IA GG PGEE B"A
CF" D'K J J 'G IG""K CG' 'CA IA #IA E "" 'L
E E AJ IF IA "A A EIG "J BA EA' B EIA EG MF
DGJ M AJ IA G JA E IF EIA F""G AJ IA FDBFEL
EFJG X G EA J EC A G'' '' IA PA EG'E G IGD
EIG "J BA EIG ' #IA 'FDAJ T FK IG BK I E
 DA EIA O'A D E IF A F AJ F'J TF "F'J X '

' ' IGD " ' IA G IA ' EIA APGEAJ DGE ' E ' G P A '
TOP H ' EA A IA R AA ' '
NE NaHN CG ' AJ NI "K G ' T FK ' IG NI ' G I E
MFCA EIA IFJ FB EAJ F ' J I AF A ' AJ I D ') ' A G J M GD
I D ' G ' ' G G J \ MG ' I E E "A ' CA G "J IF A BAA ' ' A ' G NI '
\ F ' J I E E E A ' G "J IF A IFJ FE EIG ' F EI M ' EIA
IFJ F "" G AJ G +F ' "AK ' $ IA EFDA ' I ' GM N E ' I "A
9" UFBA I ' FE E G D ' N F ' * AE D ' E A ' IA GJA ' G
9J ' B NI ' ' CA F ' ' IA IA ' G FCCAP ' IA ?ANA ' CK '
G I CI ' IA "AF ' ' F ' %A CO IF ' IA FE G BA F EAJ /
' CA F ' ' IG ' G FC ' G ' ' F ' K E JA "" IA IFJ EAA ' ' I E
E E A E "A A E I ' I E G ' ' AKAE \ "" IA IFJ EPGOA ' ' I '
I E E E A ' I DEA "M

> E EA "AC G ' ' FE ?ANA ' ' EPGOA A "" MG ' IA ' A I " G ' E
GM IA =G ' MAJA F AE ' >A FE IA G ' "K P GD ' A ' ' ' GB "AL
DF ' ' IG IFJ CF AJ I DEA "M ' ' GCA ' "K F ' J IG ' G FB "K
I G NI ' IA "J JG ' NE GM IA PFE ' KAF E ' >A FE F
=F " ' E ' & A ' IA FE GG NA ' A G E G BA F MF ' F C ' F ' J
IA =F IG " C =G E ' ' 9 PPA AEPAC AJ IA ' AN K
I CI ' IAK IFJ AJ F ' J MF "AJ G CG P ' > E FPL
PG ' DA ' ' G "J BA ' PF "F FB "A G IA >FD " G ' E ' KA '
IAK G "J M ' J F J MM C " K ' ' GPPGE ' N ' ' ' IA
D ' G K GM IA #G A A N ' ' IAK C "F DAJ IA ?ANA ' CK BK
P G (D K GM B "GGJ G IA C G ' ' KA ' ' " IAK IFJ
ACGN ' EAJ IA R AA ' E JAPGE G ' ' IAK CG "J ' G ' CG ' L
A ' J MG ' IA FJD ' E F G ' ' GM IA ' NG A ' DA ' / I "A
IA @ A ' CI ' G IGD IAK D NI ' IF A "GGOAJ MG ' E PPG '
A A "" ' N F ' J AFNA ' G N A IA ' IA "P G T FH \ M
T FK ' ' ' G "J JAEA ' IA 9 ' N " EI ' F "" F ' CA
' J IF ' CF EA IFJ T FK G P AMA ' IA M A ' JEI P
GM F #G A A N ' ' IG IFJ BA FKAJ I D ' G ABA "" G ' ' F ' J

IA' AP J F AJ IA G ' 'E C G'E\ IG IFJ A 2
P GFCIAJ I D GP^I"K ' IA G ' CG MG CG'J C I CI TOP
EIA IFJ IA EA"M ' AJ I D G P E A F'J IFJ IA' "AM N E
I D G B F FE IA D NI IA CG'EAQ A CAE GM IF 'N CG'L
EA' AJ G EA A IA Y * IK EIG "J IA P AMA 9" UFBA I
IG IFJ A A' 'G J ED EEAJ I D M GD IA P AEA'CA
I DA'FCAE F'J X IF J G JE G =F IA 'A JA TAJ C
F'J =IF "AE IG IFJ "GFJAJ I D I IG'G E ADP AJ
I D I P AEA' E F'J A A AFJK G E PPG I D I
IA F DAJ IF'J GM @ F'CA ' FO 'N IA P"FCA G I CI
IA FE CF""AJ BK I E CG ' K Y G "J EAAD FE M IA
CG "J IF A N A' 'G ' A"" N B"A AFEG' A(CAP IA A
A GBHAC E I CI IA P AMA AJ G I E G ' PA EG'F 'L
A AE] $IA IF'J GM @ F'CA FE E "A(A'JAJ G I D
F'J A A K P FC CF J MM C " K G "J IF A BAA' ADG AJ
BK I E FCCAP F'CA GM "IG NI 'IA IFJ E G"A' F FK
M GD !F E =F IA 'A IFJ EIG ' 'G AEA' DA' +A - N
'A G""AE G A GGO I D BA AA' -G'JG' F'J %A CO B
G'"K G B 'N I D F DFN' M CA' P AEA' F'J G A'A
IA GMMA GM IA PA'E G' I CI IA IFJ AM EAJ * I "A
9" UFBA I FE M"F A 'N IA EA"M IF =F IA 'A G "J NG
F"G'N I IA IF GGPE I CI A A APG AJ G BA
FEEADB" 'N ' G DF'JK 'JA T JA TF N AE A A G
BA EAJ ' FEE E 'N IA G C EI IA =G'MAJA F A -G JE
JA - N'A G""AE FCCGDPF' AJ T FK G 9J 'B NI IA A
IA FEE AJ $I GNDG G' X IF IA IG"A ! G AE F' E GM
@ F'CA G "J " A F'J J A ' IGEA DA' EQ F A"E IF
M JA TF N AE CFDA X G "J B^ I F NGGJ MG CA
G E CCG IAD ' >A A(P"F 'AJ J E 'C "K IF I "A
I E MG DF" 'E C G'E A A G ' A CAJA MG IA "BA K
GM IA R AA' KA M IA -G JE AM EAJ X IAK BA 'N

%GB"ADA' GM F'G IA CG ' K F'J'G IA 7 'N E E BL
TOP HAC E B I E M A'JE IA 7 'N CG "J JG 'G DG A B
BA EG K MG I E E E A E D EMG 'AE >A G"J TF H
"F'J X IF IA 7 'N I E DFE A FE FE CF AM " MG IA
EFMA AE F# IAK IADEA" AE CG "J BA F'J G IF A'J
FJ EAJ IAD G P G JA E BE F' F""K @ F'CA CF AJ
G'"K MG IA G"J"AFN A F'J CG "J BA FE A"" CG' A' AJ
G FOA 'GM IA" "A 7 'N FE G IA EA

G "J IF A PA IFPE BAA' BA A MG IA ' A AE E GM
9 GPA M IA E PPG I E GMMA AJ BK @ F'CA IFJ BAA'
FCCAP AJ M T FK E ' AN K IFJ BAA' "AEE G I E
PG" CF" 'E NI IFJ BAA' N AF A M IA #CG CI 'GB"AL
DA' E PPG AJ BK IA 'AF AE A"F AE GM IA R AA'
IFJ B G NI IA G F" MG IA C DAE F'J P B" C"K
A(AC AJ IA 'EIA F "AFE G "J IF A CAFEAJ G BA F'
A"ADA' GM 9 GPAF' J ECG J >A C"F DE G' 9 'N"F'J
F'J IA Q AE G' GM IA N " G "J IF A F G'CA F'J
MG A A BAA' J EPGEAJ GM \$IA @ A'CI 8G A 'DA'
G "J IF A 'EA'E B"K CGDD AJ IADEA" AE G' IA E JA
GM IA ?AMG DF G' BK ' 'N I'F PF K IG IFJ BAA'
E N AF P GDG A E ''F'G IA CG ' K \$IA JAPA'JL
A'CA PG' IA 8 EAE G "J IF A BAA' AFOA'AJ/ IA
CG' 'AC G'E I' IA > N A'G E G "J IF A BAA' J F '
C"GEA '/ IA EDG "JA 'N AD'F' GM IA =F IG" C MFC G'
' #CG "F'J G "J IF A BAA' A('N EIAJ/F'J 9 'N"F'J
F'J @ F'CA 'G"G'NA J JAJ BK C AAJ D NI IF A BAA'
J F ' GNA IA I' #CG "F'J FE F CG' 'AC 'N" 'O F'J
IF'J ' IF'J IF A PIA"J ' 9 GPA IA N AF 'L
A AE E GM M AAJGD

) IA CG'EAQ A'CAE ' E A D NI IF A MG""G AJ
TF K # F ' '" MA G JAF I FE IA P G GM DF'K
PGEE B" AE/ F'J EPAC "F G'E X FE G IF D NI IF A

BAA' F A E F""K G " "AEE/ KA I E PF C "F AE " =' !(
"GGOAJ F BK IA " NI GM FM A A A' E FPPAF E EG D CI 516 N E
DG A " OA"K IF' F'K G IA IF IA "GEE GM F' GPPG L
' K I CI M CF NI F' J EAJ D NI IF A P A A' AJ
E CI ADA'JG E D EMG 'AE CF' 'G BA PFEEAJ G A
IG EGDA A(P AEE G' GM AN A
@G IA M E G JFKE FM A T FK E F F"
EAADAJ FE M @ F'CA G "J NF ' IA JFK >A IFJ "AM
9" UFBA I MGFD 'N I 'J N' G' F IA CG'J C GM
IA -G JE / IA O'A IF G "J BA J"A G FEO IA
G ACGN' EA F NG A 'DA' GM I CI IA I FE IA IAFJ
I "A =F IA 'A FE AFJK G ACA A F D ' E A M GD
I D F IA @ A'CI =G F'J TF "F'J FE F" AFJK
EPG A' GM FE IA PA EG' IG FE G BA EA' G !F E
* IA' IA CFEOA F'J E CG' A' E A A "F J BAMG A I D
X 'G'A EPGOA DG A B A "K FNF 'E IA FNAJK F'J IA
P"FKA E IA A ' IF' T FK/ 'G'A EIG AJ EG " "A
" O 'N G E CI IG B"A E 'E >A A(P AEEAJ X N AF CGDL
D EA F G' G F JE I E E E A F'J IA IAE F AJ FBG
 IA 7ANA'CK/ KA FE C"AF IF ' EP A GM 9" UFBA I
X IA ' A'JAJ G FOA I E MG 'A J I IA -G JE >A G"J
$I GNDG G' IF X IA G "J 'G N"FJ"K " A ' #CG "F'J
M IAK EIG "J D ECF K G FBF'JG' I E M A'JEI P
%AMG A IA MG DAJ F M 'F" AEG" G' IA 'E E AJ IF
IA D E EAA IA R AA' F'J IA -G JE FM A EGDA IAE L
F G' CG'EA' AJ >A X EIG AJ I DEA"M D CI PA L
P"A(AJ IG'G F'J 'F A DG 'N I D G'A FK I E
J K G I E M A'JE F'J G A" N G' J F 'N I D IA
G IA $ DA F F'K FA G "J BA NF 'AJ F'J IA A
FE 'G "G'NA F MAF FE IA A IFJ BAA' F MA JFKE
P A G E"K IF IA R AA' G "J BA EAC A "K D JA AJ
>A M A'JE CG "J G'"K IGPA IF 9" UFBA I G "J N A

IA -G JE 'G M AEI P G GCF G' F' J G "J IA B G NI G CG'E JA IA E F G' DG A ADPA F A"K

X E $I GNDG G' G A'G' IA N I G -A CAE A X IF IA GAM " "FJK IF I FB JJA' IA A(AD K GM IA FMM" C G' / F' J IA FK G FDA' J IA MG 'A E MG IA R AA' E TFHAE K G JAF " ' IA EPAACI DG A CF"D"K IF' EIA JG I F' J " OA EA 'G G "A IAD EAA IF IA TFHAE K "" EIFOA GMM F"" IA M A' JL EI P MG E A"K IF "" B 'N F JF'NA G E EE A #CG "F' J F' J F"" IA FB"AE F' J EAE GM IA 'F G' "" BACGDA NGGJ @ A'CI I CI "" B PAJ F' J 'G EI $ D; 8B<>;C C:L;:@ G IA TFHAE K F' J IA AF"D

9" UFBA I GG G' IA E JA FE X PA P"A(AJ FE AFEG' F" A 'F AJ I PFEE G' # IA FE FB"A G FCO'G "AJNA T FK E J MM C " AE F' J EIA MAF AJ F DAE XcIA G "J BA ' DG A PA " I DEA"M IF' BA FB"A G JG F'K I 'N MG I E E E A / EIA JG B AJ IA DF A G BA EG IF' J"AJ FE IA D E A IA A' JF'NA I DEA"M G J EIG'G I DL EA"M B EIA E AJ IF X IA G "J EIG I DEA"M E CI F' G'A FE IA EAADAJ G IA IA G "J BA $IF IA G "J J EIG'G I DEA"M IA A FE " "A " OA" IGGJ F' J MG PA EG'F" JF'NA T FK CF AJ FE D CI MG FE 'GB"AD 'JAJ DA' F A ' IA IFB GM CF 'N / B I E PGE G' FE G'A ' I CI DG A IF' DG F" Q F" AE A A F' AJ @G IA G O C G MG I D X IA IFJ GG D CI GM IA D "O GM I DF' O 'J'AEE

$IA C F ' EAE MG F DGDA' G A IA ' A G GM TF K # F E P EG' IG EA * IA' IA M E FNA IFJ PFEEAJ F FK EIA IFJ EAJ IA F DE GM I CI 'G I 'N CG "J JAP A IA / EIA IFJ M" 'N G A IA NFG"A E IA EPA" GM IF E 'N "F MFEC 'F G' I CI 'G'A IG CFDA

' CG' FC MF "AJ A' A"K G MAA" #IA IFJ CIF DAJ A A' IA "FJK G -GCI"A A' G IGEA NA' "A Q F" AE GDF'CA IFE BAA' 'H E / F'J XBK G'A DAF'E G F'G IA EIA IFJ G' IA MF G F'J NGGJ " GM IA DGE PF GM IA IG EA FE A" DA' FE GDA' IA ABK EIA IFJ DAF'E G IF A ' A" NA'CA F'J FE ' EGDA G F J'AEE G IF A AECFPAJ #G F"F D 'N F' A L JA'CA GM IF EIA D NI E .JG G CF EA J E BF'CA GM CG EA 'C AFEAJ IA JF'NA F'J MG IA G AAOE I CI MG""G AJ EIA FE CG'M 'AJ F C"GEA P EG'A ' IA GGDE EA FPF MG IA EA

$IA E"F'J G' I CI IA CFE "A E F'JE FE IA' EGDA I 'N 'JA F' FC A 'A(A' $IA CFE "A EA"M CG'E E AJ GM IA G J 'F K #CG CI G A F E G'N E G'A E C A M A F'J A' K MAA EQ F A CF AJ P MG I AA G MG E G AE MG DAJ G'A CG 'A GM F"F NA CG M GD ' 'A K G F I 'J AJ MAA FC GEE $IA BFEAL DA' E G K FE F M"FNNAJ IF"" I CI EA AJ F IA EFDA DA MG O CIA' F'J N F J GGD $IA G G I AA GGDE FBG A DFK IF A BAA' EA FPF MG IA "G J F'J "FJK F'J IA MADF"A EA F' E $IA CG FE A'C"GEAJ BK F BF "ADA' AJ F" A NI AA' G A' K MAA I NI F"G'N IA ' 'A E JAE GM I CI F' F EA AE GM "G EIAJE F'J G IG EAE IA A IA EA F' E EG"J A E F'J A F 'A E " A AJ ' IA E F ' IA F'N"A GPPGE A IA CFE "A FE F G 'J A A' A AJ " OA IA DF ' B "J 'N M GD IA CG / I ' FE EGDA I 'N " OA F' G J 'F K " DA O " M GD EA A' G A NI MAA ' J FDA A / IA F""E A A M A MAA I CO MG DAJ GM G NI IA ' E G'A JA"K P"FE A AJ F'J P A CAJ I "G'N 'F G E" E MG 'JG E I G NI I CI 'GL I 'N"F NA IF' F CF CG "J PFEE B I CI FJD AJ

, JFK" NI F' J N" DPEAE GM IA "FOA F' J IA I ""E $I E
FNF ' FE J JAJ ' G I AA GGDE G'A FBG A IA
! T, P # G IA / IA IA NI GM AFCI DFK IF A BAA' E (MAA / '
IA "G AE IA A FE F M AP"FCA F' J IA ' JG E EIG
DF OE GM N GG AE I CI ' E G BA IGPAJ A A M AJ
I N"FEE $IA CGDD ' CF G' M GD GGD G GGD
D E IF A BAA' BK "FJJA E I G NI IG"AE ' IA M"GG E
MG IA A FE 'G E F CFEA G E JA F' J 'G EPFCA MG G'A
I '

!"A A ' FE ' ' IAEA I AA FPF DA' E IF IA R AA'
GM #CG E PFEEAJ IA "G'N DG' IE GM IA DP EG'DA' '
+ACA'CK D E IF A BAA' J MM C " ' ' E CI F P"FCA
F' J C"AF'" 'AEE DPGEE B"A #IA IFJ IFPP "K F G NI
IAF" IK 'F A I CI CF AJ " "A MG D 'G J ECGDL
MG E ' IA G E EIA IFJ FE DF'K " (AE FE IA
AE F' J JF NI A E GM IF"M IA PAA E ' #CG "F' J '
IA M E CGD 'N EIA IFJ BAA' F""G AJ G F"O G' IA
BF "ADA' E F' J G' IA A FCA G E JA IA NF A / B
E 'CA IA F ADP G AECFPA EIA IFJ BAA' E C "K CG'L
M 'AJ G IA G A / F' J EIA FE E "" F C"GEA P EG'A
IA A IA' G' IA T I GM N E IA 9F " GM T FK
FCCGDPF' AJ BK IG" TG G' F' J - 'JEFK F AJ
F IA E"F' J

$IA B G IA F' J E E A DA IG IA P AEA'CA GM
'AEEAE/ F' J IA CIF FC A GM IA ' A A CF' BA
NF IA AJ MGD IF G'A G IA G IA CF AJ G A AF"
$I E G'"K $I GNDG G' FE FB"A G A"" $IA R AA'
ACA AJ T FK X I N AF PFEE G' F' J AAP 'N
I CI IG A A P GJ CAJ 'G AM"AC T FK 'JA E GGJ
IA AF E BK I E DA FE A"" FE 7 'G(>A EF I
IA MG EA A F" IG E B IA FE CG"J F' J AEA AJ
#IA FE 'FB"A G 'MA M GD I E G JE X A IA IA ""
I CI IA IFJ CG'CA AJ GM IA G DAF' G F JE IA
#IA AJ G G O PG' I E AFO'AEE F' J EIA MF "AJ

% IA DAA 'N J J 'G A'J IA A ' IA A A' 'N 2
X FM A E PPA IAK A A FNF ' GNA IA F'J IA' TOP
EAADE IF T FK EPGOA G I E IG"A IAF +AAP N E
' G IA ' NI ' ' X G'A GM IA C"GCO IAK ADF 'AJ/
IA KG 'N BAF M " B "" F' R AA' GM #CG "F' J M AEI
M GD FC E

'%&* '' .' & '"'* '* .' #& ' (. # ' 4

M AEI M GD X IA A'EAFDAJ BAJ GM F B F" C I GF
F'J IA G'A DF' ' F"" IA G "J IG "G AJ IA FE
I E MF IA E JF NI A IG IFJ 'G N " PG' I E G '
IAF " OA EG DF'K GM IGEA IG A A C"FDG 'N MG
IA JAF I G E AA" I E IAF G F JE IA IG CG "J
DFOA F""G F'CAE G'"K GG N AF MG IA ADP F G'E BK
I CI EIA IFJ BAA' E AP F FK

X !"F '"K IG J EN E 'N IA J J J ECG A ' G IA
F"" I E GP ' G'E GM IA D ENG A 'DA' F'J "F J BAMG A
IA F"" E CI J EG JA E FE D NI A IA G CI IA CG'EC L
A'CA IA IG'G G IA E A K X >A BAIF AJ I DEA"M
F IA " OA F NIGE "K MF IA ' G IA IF' " OA F CG 'L
C ""G F'J EIA MG IA DA FE G CIAJ G EAADAJ G
BA G CIAJ >A 'A A E IFJ BA FKAJ X IA 'DGE PF
GM IA ' GG JAEPA F A"K MG JA' F" X #GDA DAE EFKE
$I GNDG G' X EIA AP B A "K/ EGDA DAE EIA FCL
O'G "AJNAJ IA 'FJ EAJ'AEE/ EGDA I 'NE EIA J J
CG'MAEE P"F '"K/ EGDA I 'NE EIA J J A(C EA EGDA I 'NE
EIA J J A(A' F A * IF $I GNDG G' CG "J 'G
A' /A G APG DG A P"F '"K G 9" UFBA I -FJK
-A' 'G(FJJAJ G IA #PF' EI DBFEEFJG \ X$IAR AA'
GM #CG E FJD AJ G IA B G IA IF EIA O'A IA CG'L
EP FCK MG IA I EBF'J E D JA

$%&' "(') * &+ ! , . ''* "5 1 # * 6 1
" # 8F 6 ! $ &* *'1 *7 *+ *'2 *' '* 5
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GNE

"C >A"AM IA MG IA ' NI X' IGPA GM 'G I 'N B
8GJ E DA CK "" 'N IA G EAAO G IF FE IA CI AMAE
AM NA 'G IA ' A A ' IA DG ' 'N A'JAJ "AEE
PF 'M ""K IFE P"AFEAJ IA FPG"GN E E GM IA R AA''GM
#CG E RPAA'JF' A' A FCQ F ' F'CA I T FK E
DG AE/ G 'E E IF IA IFJ ' A'JAJ G A MK IA
DA A"K IF EIA D NI FNF ' CG'EA' G DFOA GKA IA
NG A 'DA' G I D >G ' ' IA EA'EA GM IAEA A E
MIA NG A 'DA' GM #CG "F'J CG "J IF A BAA' F' GBHAC
GM JAE A A IA G I D G G F'K DF' E"AEE AFEK G A(L
P"F ' "AEE ADP 'N P GEPAC G PA EG'F" FDB G'
IFE BAA' F A"K GMMA AJ \ &?ANA'CK IG F A A' A
G A F CG ' K I CI' FE F DG F"' EGC F"' F'J A" N G E
CIFGE >A IFJ IA CA F ' IF AJ GM IF"M IA 'GB " K
BAMG A I D M IA F""G AJ IA R AA' G" A/ IA CA F '
'J N'F G' F'J PA IFPE IA GPA' IGE " K GM 9"UF
BA I M IA FCCAP AJ IA NG A 'DA' / IA DD 'A'
EO GM F' AF "K F'J G"A' JAF I * I IAEA CG'L
J G'E BAMG A I D FDB G' '"AEE G EF A I E E E A
G F I E G ' JAFJ"K PA " G B 'N I E CG ' K G GM
IA F'F CIK' I CI * FE A" A 'N CG "J IF A IFJ
B " "A 'M" A'CA I T FK F'J FDB G' E CI FE
IF JGAE 'G CGDPFEE E A'JE I BFEA'AEE
>A IFJ MG CAJ IA G EAA BG I IA N'GD 'K F'J IA
JF'NA B IA G "J 'G "AF A IA IG EGDA G JE
GM CG'EG"F G' >A G"J IA IF IA G "J FEE A IA
" MA F'J M PGEE B"A IA G "J EI A"J IA AP F G' F'J
P A A' IA P B" CF G' GM IA "A A E - BA K EIA
CG "J 'G IF A 'A IA G "J EIA JG A"" F P AEA'
X MG DF'K AEPAC E G EAAO > A J J 'G IG""K BAL
" A A IA P GMAEE G'E GM PA' A'CA IA F 'AJ IA X IF

C GE/K'Q A"F'9AK'F IFB"F CG'MAEFJG DF JG \ ' . ' ' 1N ' N E
Q A E PG A" F G JA"F D A A' JA E :4' ' '

M EIA P FC EAJ G J E B IA PAFCA GM IA AF"D G DFOA F MFC G' ' G AECFPA M GD -GCI"A A' G G F' DF A IA R AA' GM 9 'N"F' J G IA @ A 'C I 7 'N G G B"A IA AF"D / M 'F""K X M EIA PA E E AJ ' IA FMMAC G' MG %G I A"" \ I E PG A G P G AC IA G "J BA F F' A' J M G' IA CG' F K X EIA G "J FCO 'G L "AJNA IA MF " E G 8GJ/ M EIA G "J "FDA' IA E 'E PFE EG FE D N I FPPAF IF EIA JA AE AJ IA MG DA " MA F 'J ' A 'JAJ F BA A CG' A EF G' F 'J F DG A DGJAE BA IF G / X M EIA G "J DFOA A JA' IF EIA J J FBIG IA D JA GM IA I EBF 'J F 'J J J D E " OA IA MG DA " MA I %G I A"" F 'J D 'JAJ 'G A A 'NA G IA -G JE F 'J G IA E IG IFJ EG NI IA AMG DF G' \ F"" D NI KA BA A"" F 'J EIA D NI IGPA A A' F""K G ACG A IA 'C G '

X #IA GGO I D ' IA F DE F 'J O EEAJ I D $IAK EPGOA GM IA NG A 'DA' EIA O'A IF ' I E IF 'JE F 'J I E G '"K IA " MA G "J BA ' 'G JF 'NA F 'J EIA DP"G AJ I D 'G G AM EA > A G"J IA J E 'C "K IA DF 'K GBHAC G'E \ IA O'A IF ' G "J BA F PGE GM CA F ' PA " \ B EIA P AEEAJ I D F 'J IA CG 'L EA' AJ $IA ' X N 'N G JA E MG IA NA' "A AF DA' F 'J F .'G IA NGGJ EFNA IA GGO I E "AF A I 'A M E GM AF E O EEAE F 'J ADB FCAE

X 7 EEAE F 'J ADB FCAE] F 'J M GD IF DGDA' FE TF K # F IFJ IF AJ T FK BAMG A EG IA 'CAMG I EIA I ' AJ I D I F' ' A 'E K G I CI IA PFE J E" OA FE PF"A F 'J CG"G "AEE > A IFJ IA"J F D G BAMG A IA ' I CI EIA IFJ EAA' IA EA"M ' IA A JAP F K/ IA IFJ EIG ' IA IF IA O'A IA FE EIA FE F 'J KA IA EPF AJ IA I "A EIA P"FKAJ

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X $IA 9F " GM T FK EF J `FDAE TA" ""A IG 'L JA E GGJ TF K # F FE A"" FE IA X 'E AFJ GM CGDL MG 'N I E E E A 'A' A AJ I IA 'T FHAE K ' AP GFC IAE N ' N IA 'E CI ' H G E "F 'N FNA FE FE " OA G B AFO IA 'IAF ' A IG B"FDAJ I D MG ' I E "GE ' I E MF G ' $IA ' H AE A A E CI FE IAK C ' IA I AFJ GM "G A BA (' IA R AA' F' J I D MG ' A A '

$IA DA' GM IA G "J G "J IF A O ""AJ IA ' G ' DFJA M A' JE I IA ' IFJ T FK BAA' FE IAK IA G "J IF A EAA' IA MG CA GM IA F" A 'F A B ' IA G "J ' G ' IF A M "M ""AJ I E J K BA A ' FE F' FMMAC G' F A B G IA ' G ' F = I E F' ' GB"ADF'

T FK IA' FE G BA 9ANA' ' F' J IA R AA' GM #CG E JAPGE G' FE G BA CG' M DAJ ' I 9" UFBA I E P"AFE A G ' IG / $IA E F A GM #CG "F' J JADF' JAJ

\ I E E E A E EFMA K JADF' JAJ ' M DA G ' M A ' FE EG A A N' P 'CAE D NI ' F ' IA A(FDP"A ' $IA IAG K IF ' IA' "A E D ECG' J C ' IADEA" AE ' E BHAC E D E ' CGDP"F ' G 8GJ ' F' J M 8GJ GGO ' G ' G CA D E ' E BD ' FE G F J ' A ECG NA ' FE G M ' J ' G FCCAP F' CA ' $IA E JK GM IA) "J $AE FDA' ' IFJ ' G ' "AJ IA #CG E G ' F' K E CI CG' CAP G' GM IF ' 8GJ AQ AJ GM IAD X $IA ' -G J ?ANA' ' APG AJ $I GNDG G' ' I AA JFKE "F A X "" NG DG A E G "K G G O IF' F' K DF' IF I JG' A KA / MG ' IA EAAOE G D F A F IA ' EGDA IG IF A "AJ IA PAGP"A GM E FA" IF' F' K CFP F ' GM G ' JFKE E ' CF' "AF ' ' IA DAF' A I G EA ' G JF""K ' N ' B ' A IA ' IA " IF A GBAJ A' CA G I E KG ' N 7 ' N GM F""

AE F AE I E AF"D G EIF"" CGE I D I E " MA >A TOP
E AEG" AJ G JAMA' J IA -G JE F' J NA' "ADA' IF IF A N E
FOA' I E DF A ' IF' J IG NI F"" IA P 'CAE '
=I E A' JGD G "J BF' J FNF 'E IAD

$I E IA J MM C " AE I CI "FK BAMG A I D A A
'G "G' N 'EIG 'N IADEA" AE # 'CA IA R AA'
FE G BA F""G AJ G " A IA >FD " G' E F' J IA
M A' JE CG' E JA AJ IF IAK G "J BAE CG' E " IA
G ' ' A AE E BK IG"J 'N F"GGM 9" UFBA I A A' BAMG A
EIA IAF J IF IA IFJ DFJA I E JAC E G' EA' I D
G J IF EIA G "J 'A A ACGN' EA I E NG A 'DA'
F' J I AF A' AJ I D I X P B" C N' GD 'K

$G IA >FD " G' E IA AP" AJ X IF IA A EIG "J BA
'G E BHAC 'G P"FCA I ' IA AF"D A(ADP AJ M GD
IA C 'N E F IG K G M GD GBAJ A' CA G I DEA"M FE
?ANA' IA A f $G 9" UFBA I IA EF J IF I E CG EA
X FE 'G PFE JA" BA F G' F' J X MG N' GD 'K F' J
CF" D' F G' IA IFJ 'G G IA JAMA' CA B IA NGGJ' AEE
GM 8GJ I E P NI CG' EC A' CA F' J I E ' A' G JAF"
E 'CA A"K ' I E GMM CA M IF G "J 'G EA A IA IFJ
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IA D E NG I G NI I IA DF A

$I GNDG G' FEOAJ I D IA IA IA A FE F IGPA
IF IA R AA' G "J BA A"AFEAJ >A AP" AJ IF FE
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'G BA EPGOA' GM F' J X IAK G "J 'G DA CIF' J EA
MG IA BAF E EO ' BAMG A IAK IFJ CF NI IA BAF
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, IG BA FK 'N X F 'K F IM " G A A 'NAM " D 'J F 'J M 9" UFBA I G "J EAAO IA Q A GM #CG "F 'J F 'J 'G A 'JAF G G G B"A I D X BK 'G EI 'N CG' F K MFC G 'E IA -G JE G "J BA DG A CGDP" F' IF'' MG IA P AEA' IAK A A J EPGEAJ G BAJ TAF' I "A IA " MA F 'J IA AP F G'' A A MG IA P AEA' EFMA $IA P B" CF G'' GM IA "A A E G "J F F 'K DGDA' EA A FE I E CGDP"A A JAMA 'CA FNF 'E P B" C CA 'E A/ IA G "J MG BAF M GD E 'N I E FJ F' FNA FE "G 'N FE IA FE "A F"G 'A/ B T FK G TF "F 'J MG I D F 'AJ IA 9 'N" EI DBFEEFJG IF M 9" UFBA I X DFJA F PG'' IAD X IAK G "J 'G "GEA IA " AE IF A IA "F 'JE MG MA AJ F 'J BA AP AJ ABA"E I G NIG IA G "J IA'' IAK IFJ IA DAF 'E '' IA IF 'JE G H E MMK IADEA" AE IG A A EG K IAK D NI BA MG $IA NF ' "A FE I E I G '' JG '' G 9" UFBA I M EIA IAE F AJ G FOA P F 'J G EA 'J F'' F DK BK FK GM AP"K ' G #CG "F 'J FE M GD 'G F' GM "" G P ' EI IA F JFC G E E BHAC E IG IFJ JF AJ G JAPGEA IA EG A A N' #G F 'N K FE EIA IF IA'' =AC " F 'J I E M A 'JE ADG 'E F AJ I' IA EIA AL P GFCIAJ IAD I' IADEA" AE DAJ F 'N J E"GKF" K/ F 'J IGEA T ' E A E IG IFJ "FBG AJ MG KAF E '' J F 'N #CG "F 'J F 'J 9 'N"F 'J GNA IA F 'J EDGG I 'N IA FK MG F DG A ' DF A ' G '' EF IA A(A G 'E EI P ACOAJ FNF 'E IA R AA' E IAG AE GM IA EFC AJL 'AEE GM ! 'CAE $G F G J MG C 'N T FK PG'

' *9<>F8>< > ' >' 6:D@' !:H :8\
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@ F'CA =AC A' AJ G I ' IF EIA EIG "J ACA A 6/ 1 V
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FE F MGG G E NNAE 'N F'K I 'N w P AH J C F G . /0 1*
IA R AA' F'J EIA EG NI F DG A CG'NA' F FJ EA
' JA # " F/ IG IG A A A" IA IG NI GM T FK
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GG N"FJ GM F' GPPG ' K G A'CG FNA F Q F A" FDG'N
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$IA R AA' JA # " F G A FEE AJ DA IF EIA
'G G'"K DAF' G EA IA R AA' GM #CG E F '" BA K B
FE JA A D 'AJ G EA F" IA PG A G P ' EI IA =G' '
MAJ A F A -G JE #IA EF J EIA G "J EA' J EGDA G'A G
IA 7 'N GM @ F'CA G A" I D IF EIA FE NG 'N G
JG F'J G A(P AEE IA IGPA IF G IA ! 'CAE G "J
E F'J BK IA / AEPAC F""K EIA G"J DA EIA JAPA'JAJ
PG' G #G A A N' IA N AF AE GM IAD F"" DAF' 'N
BK IAEA G JE KG T FHAE K VG T FHAE K EIA FE
CG'M JA' G "J 'G F""G IA @ A'CI G ' A MA A '
JAMA'CA GM IA ABA"E

9 A K G'A ' AP" AJ G "J FPP G A GM E CI
CG'J C G' IA PF GM IA > NI'AEE ' F H E F'J
IG'AE CF EA VG T FHAE K ' FE Q A E A CG "J IA
F" FKE A" AJ PG' BK KG M A'JE F'J FBG A F" BK

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> ' = ; ?;@@ ' 8 =:= >' 9:< +$:C ' 9' !D> @$ = ' $ = > ' >' C;? :< $
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, IA > NI'AEE G IGD KG TFHAE K IFJ BG 'A E CI PAC "F NGGJ J""

NE X#IA JAE AJ DA 'G G APAF IF EIA IFJ EF J MG IA A A PA EG'E FBG IA IG MG IA) "P L PGEA J J 'G FN AA I IA A E ' IA DF A F'J EIA J J 'G JEI IAD G O'G IF EIA FE NG 'N G JG #IA IFJ EPGOA' G DA BACF EA EIA CG ' AJ G' DK J EC A G' F'J BACF EA ' F"" IA CGDD ' CF G'E I DA EIA IFJ MG 'J DA IA AE M A'J IF EIA PGEEAEEAJ

E F E AP G F JE IA ' A A' G' I CI EIA DAJ L F AJ EIA IFJ FNF ' DFJA EAC A FJ F'CAE G IA >FD "G'E #IA FE F F A GM IA P GPGEF"E I I CI IAK IFJ FPP GFCIAJ IA =G'MAJA F A -G JE #IA FE F F A IF IAK A A =F IG" C F'J @ A'CI F'J IF ' FEE E 'N IAD EIA FE MAAJ 'N IA A'AD AE GM F"" MG I CI IA G "8G A 'DA' IFJ DGE CF AM ""K "FBG AJ G A'CG FNA VA M IAK G "J MG D F PF K MG IA R AA' F'J FNF 'E T FK G IA J F BFCOE A F"" ' CGDPF EG'

$IAK F F F"" A A' E IFJ 'G GBHAC G' G ACA A 9" UFL BA I E DG'AK TF "F'J EF J IAK G "J FOA F'J "F NI F IA $I GNDG G' IG NI IF F'K IG G "J BA A "K I G ' F FK % IA >FD "G'E 'L DF AJ FE D CI AFJ 'AEE G DAA IA EIAE FE G "J A'E A IA E PP"K 'N IAD $IAK EA"AC AJ -G J >A AE F EDGG I G'N AJ P"F E B"A PA EG' G DFOA F F'NADA' E A IA I 9" UFBA I ' PA EG' M EIA

' 2:' ! @E$' >'19@H' &;F;C'Y' ' ' 1

H' '&C' >' 9:' /$8@>C'$ =' 9:< ?$D > ' @:<D> = > C' B:' C;D9' 9:< B:9$E >;< C>' ><= $:' 9:' 8>C' >? 9>< 'C>' 8$B@:' 9:<@E F

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G "J F""G I D G CGDA G -G 'JG' G I F 'K PA EG' G
IGD EIA G "J JAP A G DAA I D G' IA %A JA E 6
#IA FE P JA' A'G NI G AM F ' M GD ACA 'N #APADBA
I D IA EA"M F 'J EIA CGDD EE G'AJ -G J #C GPA IA
NG A 'G GM =F J E"A IG FE DG A IF ' IF"M F =F IG" C
G AP AEA' IA #IA EA' >A AE M DF OE F'J
BG I I G NI #C GPA F'J $I GNDG G' EIA NF A IA
>FD . G'E G 'JA E F'J IF XEIA F""G AJ IA P GL
CAAJ 'NE ' AE E 'N T FK F'J G "J PIG"J IAD
G IA DGE GM IA PG A
TF K # F E D EJG 'NE IG A A A A GG ACA'
G F""G F PF K FE KA G MG D EA"M I CI CG "J GPA'"K
FOA IA M A"J ' IA CF EA 9" UFBA I G "J IF A" NI AJ
P F C " F M EIA CG "J $IA >FD " G'E NK"A
> ' "K @"AD 'N F'J EA A F" G IA 'GB"ADA' DA F
8"FENG F IA BAN ' ' 'N GM #AP ADBA G CG'E JA
IF CG "J BA JG'A H B X IA DG A IAK J EP AJ IA
N AF A J M C " K IAK MG 'J NK"A FE GMMA AJ IA
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8F A' >FD " G' F'J -G J %GKJ XDFJA I E PAFCA I

' *9:' &<D9B C9>H >? ! '& =<:(C' 9:' 3><=C A@:8 F' &<B<>$ 9 $ =' '> =' >' *9<>F8>< > ' &;F;C' Q' Y '
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'*9:' 3><=' / :<< :C C 9:' D; F 9><C:@::D9 $ =' 9:' C:C' >? 9:' 9>@:' ?$D > 'B; '$C 9:' %;:: ' >? !D> @$ =' C$ 9' 9:<:' C >' > :' D$ ' B:' C;<:' >? 9 8' / :' $J: 9' H@:$C;<:' >' B:$< $@@ 9:' ><@=' '9$ =' / :<:' $8> F 9 C > ' D>; < 8: ' 9:' C > :=' >' B:' 9:' 8>C' D$; :@>;C 8$ ' >? 9 C $ > ' ' 8$ ' @ J:' >;' >' <:8:8B:< 9$ ' 9:' C;?? D:=' 9 C > ' 9>C $F:C' 9:' 9>C $F:C' >? 9:' 3$ <=C >? 3>D9 E$< $ =' 4$<@:C' B C :7' :F9B>;<C' >' B:' 9$ F:=' ?>< H<>\ 8 C:C B<>J: ' B ' 9; ' *9;C 8;D9' ' CH:$J' B:D$;C:' 9:' C 9:' @@D:@:C' $ =' 9:' 8>C' =$ F:<>;C 8$ ' >' : \ D9$ ' >; % F -' ' ' ! ' &;F;C' K
' :=?><=C >H > ' $C 8;D9' 9:' C$8: Y
'9:$< '9:' <> :' 9>' 9:' 3><=' / :<< :C =:C <: 9' >' D>8:' ;H' >' 9:' %;:: C +$:C ' / :' C 9:' C;B @:C' $ =' ?$@C:C' 8$ ' ?><' H<$D D:' 9$ ' C ' !D> @$ =% " ' ' ! '&;\ F;C' " '
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" C T FK > A AE G"J #C GPA I F X I A CG "J ' G BA E A
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>56 #AP ADBA R AA ' E E JA $ I A GPPG ' K K FE NG ' A I A EF J ' G
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MG""G AJ I A A(FDP"A GM I E M A ' JE F ' J G ' I A T I GM
#AP ADBA T FK FE FB"A G A""" I A 9 ' N" E I DBFEL
EFJG ' G IG EGDA G ' K X IF I A ' GB"ADA ' IG
IFJ E GGJ G IFJ F . F "FE E BD AJ/ EG IF I A
P F EAJ 8GJ I A FPPAF AJ ' G B AFO ' I A IG"A F"" '
9" UFBA I CG "J B J NAE I A J EFPPG ' DA ' F ' J
I A "GEE GM I A DG ' AK FE BAE E I A CG "J # I A GM CG EA
ACF""AJ I A T ' E A + A - N ' A G""AE IFJ A ' AJ G
! F E "GFJAJ I P AEA ' E $ I GNDG G ' GGO I E
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G FCCAP ' G I ' N ' GBAJ A ' CA G G JA E I A '
G MA AJ I A E F" CGDP" DA ' E I A EF J X IF I A G "J
FOA F ' K I ' N I CI I A R AA ' GM #CG "F ' J D NI BA
P"AFEAJ G N A I D / I A CG "J ACA A ' G P AEA ' M GD
F 7 ' N IG IFJ F F ' AJ IF IG ' G BK ' H ' N I E
DG IA > A FE G"J B AM"K IF X E CI A(P AEE G ' E
J J B B AAJ CG ' A ' G ' G ' G P PGEA > A IFJ BA A
EFK ' G DG A F ' J NG I E FK
$ I A FJD ' E F A A"F G ' E BA AA ' I A G CG ' L
AE A A "AM ' ' CG ' M E G ' %AJMG J FE MG B JJA ' G
ACGN ' EA I A CGDD EE G ' E GM I A #CG EI F JA ' E \
' ' ' N FE IAK J J ' ` FDAE E ' FDA \ F ' J IFJ G
DF ' FNA I A %G JA E FE I A CG "J # C GPA F 9" UFBA I E
EAC A CGDDF ' J CG ' ' AJ G CG AEPG ' J I > A AE
F ' J > A AE IG FE G ' I A PG ' GM "AF ' N #CG "F ' J
F ' J N ' N P I A NFDA CG ' EA ' AJ G ADF ' $ I A
> FD " G ' E P GMAEEAJ G IF A K A"JAJ M GD F ' ' FB " K
G BA" A A IF I A 9 ' N" E I 8G A ' DA ' CG "J EA G E"K

! D<>H:' >' 6:D@' !:H :8B:< K' H *9<>F8>< > ' >' 6:D@' !:H\
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P E A F PG" CK EG CG ' F K Q 9 'N" EI ' A AE E =G "J # IAK BA FEE AJ X IF IA 8 FCA G "J A' A ' G IA DF A IAK P GD EAJ G IG"J IADEA" AE '' AFJ 'AEE F CI IA GPPG ' AE F' J A' JAF G G IA BAE GM IA FB " K G CF K G IA EIAE

#G A A IA EAAJE EG ' GM IGEA D EA FB"A MA JE I CI MG M A KAF E IF FEEAJ IA IAF IE F' J IGDAE GM #CG "F' J \ I CI DFJA MG A A DPGEE B"A IF DG A ADPA F A EP I CI B MG I E D NI IF A EGM A' AJ IA NG E GM =F" ' ED \ I CI CF EAJ IA A A' F' ' GM IA PA EG ' IGEA ' A AE E 9" UFBA I FE ' A' JL 'N G EA A BK ADP 'N IA G FOA AM NA ' IA JGL D ' G' E GM F EG A A N' IG FE EG PA E E A' "K P A A' JL 'N s BA IA M A' J

TAF' I "A IA ?ANA' FE "AM I F MA DG' IE GM Q A G EIG IA G "J IA IFPP A MF A I CI D NI IF A BAA' ' E G A MG #CG "F' J IFJ =AC " E CG 'EA"E F' J %AJMG J E E G DK P G AE E MG 'J F" E A' A ' IA R AA'

$. BF J 'A F' J 7 OF"JK GM 8 F' NA EA G ' ' P L E GM %G I A"" IG IA' IA CG ' K BANF' G EA "A IFJ M"AJ M GD + 'BF G I E J OAJGD ' IA) O' AKE F' J FE IA A "AFJ 'N IA "J" MA GM F P F A CI AM F ' %A 'N F 'AJ GM IA CGD 'N IA C GEEAJ G IA #IA L "F' JE F' J IA A FDG'N IA 'F G CIF' 'A"E F' J '"A E IA FE F I E "FE EI M IA' 8 F' NA E EI P ' IG P E GM I D F' ' PG' F GCO 8 F' NA EP F' N ' G F BGF G CG' ' A IA CIFEA B IA AEEA" FE E 'O 'N F' J IA CG "J 'G '"AF A I E C A G J G ' $IA GCCFE G' GM EG D CI CG' M E G' F' J D EA K DFJA I E FK G +A' L DF O IA A IA 7 'N"G' N P G AC AJ I D ' A(PAC F G' IF TF K # F G "J BA AE G AJ F' J FM A F JE I A I D ' G P EG' IA A IA J AJ > E P E A E A 'AJ G -A I IF 'N D EEAJ IA P 'C PF" P AK B IF 'N FOA' DF' K GM I E MG""G A E FDG'N G IA E

' /2' IA KG (N -F J GM $F""G IG I >APB ' M AJ IA
TOP F ' ' IA IG EA F 7 O G @ A"J $IA ?ANA ' EA
.>E: 8B:< I DEA"M G IA EG" J G O GM AE G 'N IA DFHAE H GM
H E CA 'J A('N EI 'N IA F'F CIK I CI FE AL
J C 'N IA 'GB"A O 'NJGD GM IA # F E G F EACG'J
A"F'J $IA M E E M A A E A A IA %G JA I A AE
IG IFJ N A' G D CI G B"A G IA 9 'N" EI F JA'E
GGP 'N JG ' 'A(PAC AJ"K X G' DF OA JFK F >F CO
IA EA UAJ E (F'J I K GM IAD IG IF'JAJ ' IA
' Q AE $I AA' A A P GDP "K IF'NAJ ' 'A I
E G'AE FBG IA 'ACOE A A EA' G IA BG GD GM IA
'AF AE PGG"/ MG AA' A A FOA' GMM G 9J 'B NI
F'J MG eGDA DG' IE F '"AFE IA PAFCAM " FJA E CG "J
CF K F M "" P EA I G NI - JJ EJF"A
9" UFBA I G' IA E JA IFJ IA IF'JE M "" GM A(F G'E
F'J G B"AE GM F'G IA EG I CI A(P"F ' M IAK JG
'G A(C EA IA G"A'CA F'J PA A EA'AEE $IA PG A M "
PF K I CI ' !F " FDA' F'J G GM IFJ EG "G'N
FJ GCF AJ IA R AA' GM #CG E E CCAEE G' IG NI J EL
G NF' UAJ BK +F '"AK E JAF I IFJ 'G BAA' JAE GKAJ
$IA R AA' GM #CG E PF C PF G' ' IA D JA FE
O'G ' FE KA G'"K I G NI DG F'J IA DF'K
=F IG" CE IG IFJ EG "G'N "GGOAJ PG' IA 'FE IA G'A
E FK F'J IGPA CG "J 'G AFE "K PF I EG JAF F'
A(PAC F G' $IA =G'MAJA F A -G JE IFJ M GD IA M E
JA A D 'AJ M IAK EPF AJ IA '" MA G AEPAC IA AP L
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G E F A EAC A E DA' FMM DAJ IA N " G JA' AJ
FCCG J 'N G IA CGDP"A(G' GM IA C AAJ * I "A IA
F JA I CI G "J BA FEE DAJ BK 9" UFBA I FE KA
'CA F ' IA CIB EIGP GM 8"FENG IFJ BAA' FB"A G
A"" +G' @ F'C E JA "F F IF M IA R AA' GM 9 'N"F'J

E PPG AJ IA -G JE EIA G "J IF A F F PG' IA 2
IF' JE F IGDA I I CI F"" IA G "J G "J 'N TOP
' J F"" G A IA 'G IA ' CG ' AE J EN EAJ P AE E G ADBA
A A N" J 'N M GD IG EA G IG EA X" DJA CG"G GM
A" N G' PG 'N G A"GQ A' EA' DA' FBG IA "GE
MF I GM IA MF IA E F" AFJK AP AEA' 'N IA -GCI"A A'
P EG'A FE F E MMA 'N #F ' / F' J XBK IA "A J P FCL
CAE XEAJ C 'N NGGJ E BHAC E I G NI IA G ' E DL
P" C K ' G A G F' J J E"GKF" K p

G FE KA FE IA 9E FB" EIAJ = I CI E GJAEEM ' '
NF ' 'N IA F"" AN F'CA GM IA CG ' K NA'A F"" K * I "A
IA =F IG" CE A A A'C GFCI 'N G' G'A E JA GM IA
F TAJ F IA ! F'E A A JA'G 'C 'N PG' IA
G IA / $IA P GEAC G'E GM IA -G'JG' C"A NK IFJ
IF JA'AJ IA E MMA A E F'J D " P" AJ IA MG"" G A E
F'J IA % EIGPE A A JA'G 'CAJ FE X DPE GM ' CI E
I IGD FE E 'M ' G IG"J CGDD ' G' $a A C"A NK
A A NA'A F"" K FO 'N AE F'J IA R AA' FE " "A
FE A A FB"A G ACGIC "A IA EA"M G CF NI AFNA "K F
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9$ ' C >' 8$<E:@ 9>;F9' 1>H:' / @=:B<$ =C CH< ' ($@J: 9' ?;\ <>;C@ ' $B<>$=' >' C@$ =:< 9:' H>><' 8$<< :=' :C $:' 6<:= ' C C>' <:$= ' >' B:@ :E:' 9:' ><C ' !:=' L;' 9$B $' ' D>:@ C << =:B ' :>C' *9:' B<>J: H@$:' $ =' B;@@ > '?>; =' ' 9:' D9;<D9' 9:' 9' D> C: ' >?' $@@ 9:' D9$H\ :<' D> E:< :=' >' 9:' D9;<D9' ;C:C > @ % * ' ' ! '&;F;C ' @$ ' TOP' ' '

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' FE AFEK G MG AEAA IA AMMAC ' I"CI G "J BA P GL
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IA ' DDAJ F A''A NIBG IGGJ'GM IA#PF' EI#G A A N' '
G'CA 9'N"F' J E "F ' 7 'N ' G IGD IAK IFJ EG "G'N
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GM C G G E GGPE \ FBEG" A"K C G G E ' FE FE
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D JE ' EG DF'K C"bDA' E GM J EQ A ' F"" PF AE ''
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IA MG A N'' A"F G'E GM IA CG ' K CG "J BA A AE FBL
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B<>J:' C$ C' ' '9:$<'B ' +<' 4$<<$<=' B: ' 9: ' C::8' >' <: > D:' F<:$ @ ' $'
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C' 8' 3$ D$C9 <:' $' F<:$ ' ;8B:<' >? 9: ' C9>;@=' 9:<:B ' B:' 8$=:' $B@:'
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Y ' C' <:H; :=' T Y 9$ '9$E:' $J: ' 9: <' 1>H C9' J F=>8 ' $ =' <>> F'
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9$ ' 9: ' @@' >' D>8:' $ ' 9:' D>8\ 9: ' :<8' 9>' H@:$C:' 9:8 Y 5 '
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KFI FNAE P ' 'NA ' PG ' IA ' G ' GM IA C G DE IFJ
ACG 'C "AJ IA BGJK GM IA 'F G ' G IA FCCAEE G ' GM F
E F 'NA F 'J 9" UFBA I E G ' 'C" 'F G 'E IFJ "G 'N
PG ' AJ " IA EFDA J AC G ' $IA D JA GM +F '"AK
IFJ A AJ IA G"J 'CA F ' AE 9 A ' DA ' " OA
DIJA F ' J G MG"O IFJ ' G FE KA ACG A AJ E MM C A' "K
M GD IA EIGCO GM IF F 'EFC G ' G CG ' ADP"F A TF K
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* I "A -A CAE A IFJ $ A A ' KA IG""K FBF 'JG 'AJ
IGPAE IA =G 'C F IFJ NG 'A BFCO G =IF "AE GM E F
IA F"" F 'CA I CI A A K JFK DFJA DG A JAE FB"A MG F
EG A A N ' ' 9" UFBA I E PGE G ' TF AJ G =IF "AE
EIA G "J BA F G 'CA G GM JF 'NA M GD #PF '

$IA CIJ OA F IA CG GM I E MF IA F 'J B G IA
IFJ "AF 'AJ IA P 'C P"AE GM DGJA F G ' I CI IA
'ACAEE AE GM IA PGE G ' DPGEAJ PG ' IA 9DPA G E
GM 8A DF 'K > DEA"M F =F IG" C IA IFJ "AF 'AJ G
G"A F A IG J MM C " K IA - IA F 'ED GM IA
NEB N =G 'MAEE G ' F 'J IA AMMG E BG I GM IA R AA '
F 'J IA I NIA C"FEEAE ' 9 'N"F 'J A A G OAAP IA
=I CI FE 'AF FE PGEE B"A G IA NEB N IAG"GNK

' ' P "" IA'"GKA E A A CGD D L CGD DA 'JAJ IA DF ' 'A GM I E L
' CF 'N I $ GOA 'E F 'J $DA F 'N PA IFPE FE) " F CGD DA 'JAJ
PIG E -A CAE A IFJ CGDP"F 'AJ TF" G" G E KA""G E GCO 'NE/ I
GM 9" UFBA I E 'A(ADA NG D CI A"EA GM F IF"M EA G E ' IF"M
9" UFBA I IFJ CF""AJ I D $F CFD bL DGCO 'N O ' J/ I CI -A CAE A E
"bG ' I CI CIF 'NAJ ' G F"" CG"G E M A 'JE F CIAJ F ' (G E"K F 'J EA '
EF A ' 'GCA 'CK ' IA E NI GM I D JF "K APG E GM \ 'F - '
I E CKPIA IA %"FCO > AF EIA IFJ > T FK Q
EIG ' 'E 'J K FMMAC G 'E ' '# IA IFJ

F'J G E AA C"AF GM IA 8A'A F' CIF' 'A' ' G I CI
IA DG A AF 'AE ?AMG DA E A A FP J"K EA 'N >F
'N BAA' M"AJ I MG EA A' KAF E IA 9DPA G CG ""J
'G IF A BAA' A(PAC AJ G DFOA M /IA FJ F'CAE M
IA E BHAC FE G BA A GPA'AJ IA ' F A NI
'F F""K IF A"&AA' FOA'BK 9'N"F'J % IA 9'N" EI
T ' E A E CG "J 'G GB F ' PA D EE G' M GD 9" UFBA I
JG DG A IF' 'J CF A IF M TF(D " F' G "J BAN ' '
EIA G "J 'G FNF ' J EFPPG ' I D MF(D " F DFJ I
E" NI ' 'MG DF" G A AE F'J ' TFK -G J # EEA(E
CIGEA' G NG G A' 'F G QF K IA 8F A G IA9' PA G
F'J F F'NA M PGEE B"A IA CG'J G'E PM IA DF FNA
A K A" C F' "& 9" UFB A I IFJ BAA' B G NI EG MF
PG' IA FK DG' I A"FPEAJ BAMG A EIA CG "J AL
EG" A G' IA MG D GM # EEA(E 'E C G'E F'J F"DGE F
EACG'J BAMG A EIA CG "J F""G I D G EA G "FE
' IA D JJ"A GM ` "K I "A IA R AA' GM #CG E FE '
EG D CI JF'NA F -GCI"A A' EIA PA D AJ I D G NG
F'J G' IA Q I GM N E IA FE F A' 'F
$I E DA EIA FE E PPGEAJ G BA EA G E #G FN L
F AJ FE=F IA 'A JA TAJ C IF EIA F'G'CA A'A AJ
IA GM MA GM =IF "AE , F'J A A' GMMA AJ G AE G A
=F"F E M EIA G "J FOA I D 9" UFBA I EF J B AM"K
EIA CG "J 'G DFOA IA EA"M J C "G E F'J EIA F"F DAJ
=F IA 'A E "" DG A BK IA ' ' E F" JAC E G'
$IA I E G K GM I E "FE AF 'AE AMMG G B 'N FBG
IA E F' DF FNA I G E EG EIF P F" NI ' G IA
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CHM ! , " "FE ACA AJ FE G' I E BAIF G F IA P AEA' F G'
516 GM IA 8F A $IGEA I NI CA ADG' AE A A F" FKE FCL
CGDPF' AJ I F A" N G E EA CA # EEA(FE MG
B JJA G BA P AEA' F DFEE 'B IA FE G E NNAE
IF IH ' AE A EIG "J FOA P"FCA ' IA FM A 'GG'
F' J IA D NI F A' J AEPA E X I EFMA K G I E CG'L
EC A'CA TFO 'N I^ BAE A(CnEAE I CI IA CG "J MG
9" UFBA I E PFE AF DA' GM IA CIJ OA IA FE IA'
G EFK IAH IA GPA'AJ I E CGDD EE G' IF \ /
X * IF A A D NI BK APG G G IA EA CGDA G I E
TFHAE K E AF E G IA CG' FM IA R AA' FE E > M AA
G DF K IA'^KA 8GN EIG "J DGKo I^ F'J F" IG NI
EIA IFJ BAA' Mz DF'K KAF E PM D 'J 'G G IA' A ' G
DF FNA KA IA N AF 'ACmE K I C" IA E BHAC E
"F J PG' IA IFJ B G NI IA |CG' FK B IA 'F F"
'C" 'F G' G N A AF G Ib 9DPA G E D! G') IA
P GPGEF"E IFJ BAA' DFJA G IA B EIA IFJ A A P AL
MA AJ IA CIJ OA G IA G IA E G E F'J EIA 'G
E AJ IF M CA F ' J MM C " AE CG "J BA G A CGDA IA
DF FNA D NI BA M 'F""K CG'C" JAJ $IA 9DPA G
IFJ ' DF AJ IF I E B G IA G "J A(PAC PA D EE G'
G IF A =F IG" C EA CA ' I E IG EAIG"J X TF'K 'CG'L
A' A'CAE IFJ IFPPA'AJ ' G IA CG ' AE M GD DF 'L
F ' 'N CG' F A K GM A" N G' F'J ' 9 'N"F'J IG NI
IA A IFJ BAA' DF'K CIF'NAE X IA A FE 'A A F""G AJ
F'K CG' F A K IA A ' F G'A DA X9 'N"F'J J MMA AJ
' IF M GD F"" G IA E F AE IF ' CG "J 'G E MMA
IGEA J A E AE GM A" N G' I CI G IA E A A EAA' G
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FE 'G I 'N ' I CI FE 'G ' #C P A F'J 'G
G'A CF"" 'N I DEA"MF=I E F' 'AAJ J E" OA F'K PF GM
> A F'J A A K DF' D NI I 'O IF IAK P"AFEAJ
X $IA "F G CIAJ 'G DF' E CG'EC A'CA EG FE P B" C

G JA FE 'G G"F AJ BK A(A 'F FC G AFCI 'N H 2
$IA CG ' K IFJ BAA' EG MF PAFCAFB"K NG A 'AJ 'JA 516
I E EKE AD F'J CG "J 'G BA F" A AJ #AP ADBA

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9" UFBA I IF EIA J J 'G F' C PF A IA PGEE B " K GM
F J MM C " K BA 'N DFJA FBG ' '"AEE IA 'ANG F G'E
EIG "J CGDA G 'G I 'N G' G IA N G 'JE $IA CI
J OA IFJ BAA' I DEA"M IAF J G EFK X F""AN 'N IF
G B"AE D NI CGDA GM J A E AE GM A"N ' IF IA
G "J 'G G'"K MG BAF G IAF DFEE 'H 'N"F'J B
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A A' E IA R AA' EF J XH G "J G CI IA AP FL
G' G CIF'NA IA "F E MG F DF FNA F'J IA A(L
FDP"A G "J B AAJ DG A G B"A IF' CG "J A"" BA
ADAJ AJ $IA CI J OA BFJ BA A CGDA G 9'N"F'J
F'J EAAH F'J BA EAA' F'J # EEA(FE J AC AJ X G EA
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N G 'JAJ IF IA #PF' EI DBFEEFJG IFJ EF J FNF '
F'J FNF ' IF IA M E DFEE EF J P B" C"K ' 9'N"F'J
G "J BA F E N'F MG F NA'A F 'E AC G' 'J E
C"AF IF IF 9" UFBA I EF J FE 'G ANF JAJ FE '
F'K EA'EA MF F""K CG'C" E A * IA IA IA CI J OA
IFJ G IFJ 'G EAJ IA G JE DP AJ G I D IA F
"AFE PF EAJ G CG'E JA 9 A' F""K 'A IA IA 'G
IA 9DPA G G "J 'JA FOA IA AEPG'E B " K GM F
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M GD' IA'NF JA'E'F '#CIG'B ' ' ' ' FE' 'P ' "'' Ib'
,GADBA' KN I' GM')C GBC ' IF ' IA' E F'' 8G A 'DA' \ ''
PGEEAEE G'' F '"FE 'GM' ! I " P E' A E\ AA' '' F'PGE G'' '
G'A' A ' PG'' IA'Q AE G'

TF(D " F'' JAC" 'AJ' G' ' A A A'F'F'"A '('A'FAC E G'' '
G' I E' B G IA ' $IA' CIJ OA' EF J' F ' CICA ' BF '>A'
CG "J' 'G ' NG' G' 9 'N"F' J' G' BA' "oGOAJ' F ' F' J' IA' ' M'
IA'R AA'' J J' 'G '" OA' I D ' G'M 'J'I DEA"M'CFE M E JAC 'E'
I E' P A A(' GM' A" N G' ' >A' FE' FM F J' IF ' A" P''' '
G "J'BA' DFJA' EA' GM' G' CG A '"AEE'XPMGJ Q B"A' GBHACL
G'E' F'J' 'E E AJ' G'' EAA 'N' ' I E' $ ' C"AF "K' BAMG A'
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MAF AE' IF ' GxiJ' BAE '" OA' IA ' IA' MA" ' FEE AJ' IF '
EIA' G "J' M 'JA'J' H E 'CF EA' G'EF EMK' IA' G "J "/&
EIA'EIG "J'FM A 'E NI ' D E" OA' I D ' % ' IA PIJ OA'
' IFJ' BAA'' "G 'N' M"AJ' I ' >A 'CIGEA' G'O 'G ' IA MA'
IA' FE' E F'J 'N 'F'J' M' IA' A' HB' 9 'N"F' J/ |9" UFBA I'
EIG "J' A IA ' FCCAP ' I D' G ' BA' MG CA ' ' G' IA' J EL
CG AEK' GM'PFEE 'N' F' PA EG 'F'' E" NI ' PG'' IA' DPA F''
' >G EA' >A' EF J' IA' G "J' 'G ' N A' P' B E' A" N G'' '
B ' IA' FE' "" 'N' G' FBF 'JG'' IA' GPA'' P GMAEE G''
GM' ' >A' D E ' IAF ' DFEE ' B ' ' EIG "J' BA' A IA '
P F A"K' '' I E' GGD ' G ' F 'K IA A' IF ' IA' R AA''
D NI ' CIGGEA' G' FPPG ' ' F'J' IA' G "J' EIG "J' O'G *'
'G I 'N' GM' ' $I E' FE' I E' G '"K' CG 'J G'' M' ' A A'
CG 'CAJAJ ' IA' G "J' FCCGDPF 'K' IA' ADBFEEK' G' " A'' 9 'NL
" EI' =G

-G J' # EEA(' IG' BA" A AJ' IA' DF FNA' 'J EPA 'EFB"A'
G' 9" UFBA I E' EFMA K ' APG AJ' IA' CIJ OA E' G JE'
F'J' FJJAJ' F' IGPA' IF ' BAMG A' EIA' JAC JAJ ' X 8GJ' G "J'
EA 'J' >A ' T FHAE K' NGGJ' FJ CA ' M' IA ' CG 'EA' ' G "J'
BA' JF 'NA G E' G' IA' ?AMG DAJ' MF I' M' P B" C' ECF 'JF"

A A" OA"K G F EA M GD 'G A M A'J G 9'N"F'J I 2
IA EFJ G "J FJ EA IA G K A"J M IA AF" GBHAC G'E EG ADBA
A A F"CA' F FK BK IA EAC AEK F'J IA A ADF 'AJ G'"K
 XF' DFN 'F K JF'NA 'G N G 'JAJ PG' AFEG' IA'
XIA >F EIP J J EE FJA IA M GI F'F"" F'CA I CI F"G'A
 CG "J JAMA'J IA M G ' DF'K CA F ' PA "E G "J JG
F' "" JAAJ GtKFHJE 8QJ >A TFHAE K F'J IA ?AF"D
 #G # EEA O G A G IA R AA' * I =AC " IA FE
DG b A(P" C $IA CIJ OA/ IA EF J G "J F""G 'G
?'N" EIDF' G A'J IA =F IG" C EA CA G O'G IF
 A(E AJ >A P GD EAJ X BA FJ EAJ BK IA R AA'
M P B" C GMMA'CA EIG "J N G GM >A G "J I DEA"M
CCGDPF'K IA G IA EA CAE GM IA 9E FB" EIAJ
=I CIK F'J IA E P "F AJ G'"K IF M IA A' G 9'NL
"F'J h'Jp M R EAA 'N I D EIA J E" OAJ I E PA EG' EIA
EIG "J 'G BMA IA A'NFNADA' E I CI IA IFJ GMMA AJ
G DFOA # EEA(PG ' AJ G G =AC " IF =AC " O'A
FE X A"" FE IA \ IA P"AFE A I CI IA DF FNA G "J
N A I G NIG 9'N"F'J/ IA IGPA GM EE A X I IA
G J 'N GM B"GGJEIAJ ' F J EP AJ E CCAEE G'/ IA
EAC K G IA R AA' E I G'A/ IA FJ F' FNAE G IA L
EA"M XGM IAX CGDPF' G'EI P GM F G E ! 'CA/ X IA
EF EMFC G' GM IA 'GB " K/ IA P GEPAC E I CI G "J
B 'N I GM ' A EF" PAFCA ' 9 GPA / IA P GBFL
B " K GM IA ! 'CA E CG' A E G' F'J IA AMMAC I CI
IF CG' A E G' G "J P GJ CA G' IA EP AFJ GM IA
8GEPA"

X * IG IA CG'C" JAJ \ F'J I E G JE F A DGE
E N' M CF' \ X MG AEAA J ECG' A' J E ' G' B"GGJEIAJ
GM IA PAGP"A \ PA IFPE ' IA G ' DA MG I E CF EA
F'J IA ' GM IA AF"D ' IA A'J/ I CI B"GGJK DA
I AF A'A I " "A AEPAC GM A" N G' B D CI DF" CA

 ! ;CC:7 > ,@ I$B: 9 D >B:< 00 H

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F'J A A'NC MG P F A FDB G' G' F"" E JAE/ I CI DF'K BK "M "B" 'J'AEE MG G IA AEPAC E "" 'G EAA F'J KA P G' EPAC FC"AE G EAF CI F EC P"A 'JA CG"G A" N G'

G G JE CG "J IF A A(P AEEAJ DG A C"AF "K IA CG'L C G' I CI FE MG C 'N EA"M PG' 9" UFBA I E E F AEL DA' IF IA Q A I CI EIA IFJ I IA G A'HGKAJ FE 'G G "FE D CI "G'NA F'J IF EGDA JF'NA G E CG' "E G' G G IA FE MFE FPP GFCI 'N $IA J EFE A E GM IA R AA' GM #CG E A A IFE A' 'N IA C E E $IA =F IG" CE IFJ BAA' PF A' '/I A(PAC F G' GM IA #CG EI E CCAEE G' $IA CF EA FE NF ' 'N N G 'J A A K IA A ' 9 GPA $IAK IFJ IADEA" AE BAA' AC 'N IA ' ' DBA E F'J ACG A 'N E A'N I' F'J CG'M JA'CA I G NI IA MAF G IA A" C F'CA GM IA R AA' G F""G IA "F E G BA A'MG CAJ FNF 'E IAD $IAK G "J 'G E E "" 'JA IA 'J EFPPG ' DA' F'J M IA E CCAEE G' Q AE G' FE G' ADF ' F' GPA' EG A IAK G "J BA J F ' ' G ' N A CG'EP FCK F'J ABA"" G' ' ' I E CG'C" J 'N G JE # EEA(A L JA' "K AMA AJ G 9" UFBA I E A " NA' E IA 9F " GM -A CAE A IG IA' 'EA AJ I E ' IFJ BAA' AFJK G E AF BK ! I " P F'J IA =G 'C " GM $ A' F'J IG 'G ' 'EAADAJ IFJ CIF'NAJ CG"G E ' AEA' DA' F IA JA A D 'AJ IGE " K GM IA =F IG" C 'GB"ADA' -A CAE A IFJ NG'A G A G IA ! F'E CF K 'N G EAAD 'N G'CF K IA 9F " GM !ADB GOA F"G'N I' I D =F 'N G'"K MG I E G ' D EA FB"A EA"M IA IFJ J JAJ IA =G 'C " PG' IA DF FNA I' IA C K GM X !GPA K

! ;CC:7 >' 6:D@' D >B:< KP Y' ?!!' D ' ' '

$ 3>' L ;:' 8$C $H< : $'@>C 6$ e@ \ D>C :C E:< L ;:' :@ 6> =:' =:' 3: D:C :< C 9$ 8 ;D9>' D> ?@<8$=>' : '@$' 9:<:(

F $ 'L ;:' @:'C F ;:' :@ 6> =:' =:' 1: 8 \ B<>J:'X'L ; : '9$ ' : =>'H><6$ e@ D> ' . ' ' 1;@ 2:D: 8B:< Y' '

M NI A'AJ IA B EIGPE/ F'J EA G'` A A" G E IA # PFEE G'E GM IA -G'JG'' DGB`

516
7G ADBA

! G AE F' PF' C FE EKE ADF CF""K O 'J"AJ $IA JAPGEAJ =F IG" C P A"F AE A A P"FCAJ ' E F A CG'L M 'ADA' # EPAC AJ IG EAE' -G'JG' A A EAF CIAJ F'J E F'NA E MG 'J IA A A DFJA G N A FCCG ' GM IADEA" AE F'J IA A" N G' 9'N" EI =F IG" CE IG IFJ F A'JAJ DFEE F IA #PF' EI DBFEEFJG E CIFPA" A A F AE AJ F'J DP EG'AJ f +A # " F I DEA"M FE E PPGEAJ G IF A j CG'CAF"AJ BF'J GM G IG EF'J FEEFEE 'E AFJK G FOA F DE $IA H JNAE A A CF""AJ BAMG A IA # F =IFDBA F'J G JA AJ G A'MG CA IA "F FNF 'E F""P PA EG'E MG 'J PGEEAEEAJ GM BGGOE GM ?GD EI IAG"GNK TFN E F AE F'J F""G IA GMM C F"E A A E DDG'AJ G IA B EIGPE CG E F'J GMMA AJ IA GF I GM F""AN F'CA/ F'J E APE A A FOA'' G AHAC F""P PA EG'E E EPAC AJ GM IG"J 'N =F IG" C GP ' G'E G GM IA ?GKF"P IG EAIG"J 9" UFBA I ADF 'AJ PFEE A $IA A(C ADA' D NI BA EAM '" G IA M EIA A A G JAC JA G'' AHAC 'N IA CIJ OA * IA'' JA # " F CGDL P"F 'AJ EIA P GMAEEAJ N'G F'CA GM IF FE NG 'N G'

A><' 9:' : C 9 D9' J > ' >;' $<:' 8>C'$ 7>;C >' 9:$< >?Y' 9 D9' C >?' 9:' 2;J:' 69$<@:C' $ =' >?' 8 '3><=' >?' !;CC:7C H<>D::= FC 9:<: ' 9:<:' C $ =' 9$ 9' B:: 'C;D@' ><J F >' >E:< 9<> ' 9$ '$C 9:' @J:' 9$ 9' >'B:: Y 9 D9' C H ?;@ >' 9:$< >?' *9:' 6>; D@ 9:<:' $' 9 C H<:C: '$<:' 8$:< = E =:=' >;D9 F 9:' C$8:'$ =' C 8$=:'$' 9 $ ><>?'<:@F> '$ =' 9: 'C$ ' 9: ' =>' '?>< D> CD : D:'C$J:' ';'4>=' J > : 9' 9$'D> CD : D:' C ' 9:8' 9 D9' F>' $B>;' >' 9 =:< ' + ' 3><=' >?'3: D:C :<'8 '3><=' ! : $<=' f1:8B<>J:Z' 8 '3><=' +$<L;C f>?' .>< 9$8H > Z'$ =' 9:' D:' 69$8\ B:<@$ 'f! <' * ' / : :$F:Z'B:'$F$ C

9 C D>8 F ' ' ' ' + '3><=' 69$8\ B:<@$ 'f3><=' / > $<=' >?',?? F9$8Z' 8 '3><=' &=8 <$@ f3><=' 6@ > Z' +<' !:D<: $<' f6:D @Z'$ =' +<' 6> \ <>@@:<' f! <' $8:C 6<>? CZ'=>' C9'9 C D>8 F ' S9:<:;H> ' : :@ 8$=:' $'C:<8> '$' 1$;@ C 6<>CC ;H> '!; \ =$ ' $C C: F9 '9 C 9:8:'B: FY' h'6 ;C:=' 9:' 9:' @ $ 'F>: 9' $B>;' >' B;@=' F ' 9:' $@@C >?' :< D9>iY' 8:$ F 9:<:B ' 9:' B< F F '>?' $ ' =>D < :' D> <$<' >' 9 C % ' ' ' ' = ' ' ' = ' ' '= *'

' 2:' ! @E$' >' 19 @ H' .>E:8B:<' Y ' ' ' !$8:' >' 9:'C$8:' 2:D:8B:<'

$(E$ F'J$P GD EAJ$ G$P FE GP$ G$ /B $'GI'N$ FE$ JG'A$
M5 f6 F'JEIA FEEGE EP C G E$F'J$EA'E A$ IFIAECF CA"K$
+ACADBA JF AJ$FPP GFCI$ IA$E BHAC$ I$IA

IA F G'$ FE$ F$ E$IA NI $ IA'F APG $ FE$ EP AFJ$ IF$!I "PIFJ EF "AJ$MG $ IA$ -G $ =G ' AE$ IFIA FE$CGD 'N$ G$9'N"F'J$BK$ IA$ FK$F'J$D NI$ F'KJFKF AF !G EDG I$ *IF$ DAF''G'A$ CG "J$ A""$ -G J$TG' FN A$ FE$J AC AJ$ G$IG"J$I DL EA"M$ '$ AFJ 'AEE$X G$ FG' IA$7 'N$ I$F"'$CGDL DGJ KMGIE$ AM AEI 'N$F'J$# $ J F'$!GK' 'NE$ FE$ EA'$JG '$ I$ GGPE$ GBA AFJKXMG$F"'$A A' E$

IAPGEE B" KGMIE$CGD 'N$IFJBAA'MG AEAA'FE AF "KFE N E $ IABAFCG'E$ A A$ DDAJIA CGFE E$ A A$F DAJ$F'J$CG PE$GM$DF CI"GCO$ G" ' AA E$ IFJBAA'MG DAJ$F"G'N$ IA$ =IF''A'$EIG AE$ I$P L "ANAE$F'J$A(ADP G'E$F'J$P UAE$G$A'CG FNA$IAD$ G$P FC EA$EIGG 'NI

' '*9:'# F'>?'!H$ '>'9C $ '
>' 9:' 3> ' 6>; <:C 8$' H$CC
9<>;F9' 9:' $<<> ' C:$C $ =' H:<\
9$HC >;D9 $' 1>< C8>; 9Y $ ='
9:D$;C:' 9$' > ' C$' > '>?'?><\
?D$ > C'$ =' >'C>'?;< C9:=' 9'
8:' $C 9 C D$C:' 9$HH: F' :<:'
8::' $ =' D> E: : '?><' $@@ :E: C'
9<::'9; =<:='8:' >'B:' :@@C>< :='
$ =' $HH> :=' >' $: =' ;H> ' !<'
&=<$ '1> FC'$ ='B:'=CH>C:=' '
H@$D:C' :$<' $B>;' 9:' > ' 9:<:'
9:' 8$' B:' '<:$= :CC' >' 9:'
CH::=@' C: ' ?><'$ =' ;C:=' $C' 9:'
C$ =' D$H $ ' C9$@@ 9 J' 8:: Y'
' ' ' ' -'
&;F;C'K1' ' '
' ' 9:' H><' > C' $@> F' 9:'
C>; 9' $ =' :C'?<>8'.: D$C @:' >'
1@ 8>; 9'$'D><HC' >'B:'?><8:='>?N '
9$<L;:9;CC(8: ' >' 9:' $J: ' ?<>8'
9:'$< ?D:<C'>?' :$D9' > ' B: :: '
9:' $F:C' >?' U' $ =' M ' >' B:' =;@
:7:<DC:=' $ =' 9:@=' <:$= '?><' C:<E D:'
9: ' D$@@:=' ;H> ' ,E:< ' 8:8B:<'
>?' 9:' D><HC' >' <:D: E:'?>;<' H>; =C'$'
:$<Y>; >?' 9:' 9 D9'$'9C'> 'D>C'
>' H<>E =:'$' 8><> '$'F>>=' C;BC $ \
$@'9$<L;:B;CC' 9'$'D>8H$CC' C >DJ'
>?'C;D9'B><:' 9$':E:< ' 9<::'C9> C'8$'
:F9' > :' >; D:R ?$CJ' >;D9(B>7'
C ><=' $ =' =$FF:<Y $' :<J '>?'D@> 9'
>H:'$' 9:' C=:C' $ =' C@::E:C' @'
$' 9>>=' >?' 9:' C$8:' D@> 9' ?$C : :=' >'
9:' D>@@$<' >?' 9:' C$8:' :<J
*9:'%;:: ' >'H<>E =:'$8 8; >
'A><' 9:'B: :<'$@@;< F'>?'8:' >'
9:' C:<E D:' 9:' H:<C> C' > F' >'
9$E:'D:<$ ' 8 8; :C':C 8$ > C'
$ =' @B:< :C' Y $C' ' >'B:' D$@@:=' / $<('
L;:B;CC(8: '>?' 9:'6<> Y >' :$<'
$'CD; D9:> '>?' C@E:<' 9'$'9$<L;:('
B;CC' ; =:<$' D<> ' $ =' >' B:'
H<>8 C:=' H<:?:<8: ' ' F$<< C> C'
<> $@' $C' H@$D:C' C9>;@=' ?$@@' E$D$ '
>'B:'?<::' >?' 9:' > C' 9:<:' 9:

TF'K GM IAEA P ACF G'E FE EA ' IADEA" AE (K
A A'A'CG FNAJ BK =AC " \ KA IA A(A AJ I DEA"M 'G'A
IA "AEE G I F IA 'A(P AEEAJ P PGEA MG I CI
IA PF' C FE A(C AJ $ A G IA G N 'F" P 'C P"AE
GM >A' K E AMG DF G' IA DF ' BGJK GM IA
9 'N" EI 'F G' IFJ 'G EKDPF IK I A G" G'F K
MF'F CED $IAK FJIA AJ G IA PG" CF" FJ G'E F'J
IA F"" F'CA I #PF ' $IAK "GGOAJ CG"J"K G' IA
> N A'G E/ CG"J"K G' X IA BANNF E GM @"F' JA E IG
IFJ EA' ' F DE G EIFOA GMM IA 'Q E G' 8A'A F'
! G AE F' ED FE 'G G BA AE FB" EIAJ ' 9 'N"F' J IL
G F C " F / F' J =AC " NGGJ AMG DA FE IA FE
FE F BA A 9 'N" EIDF' * IA' IA CIJ OA E P GL
PGEF"E F AJ IA FJ GCF AE GM IA DF FNA F"" CG'L
E JA AJ IF IA IFJ FEOAJ MG 'G I 'N I CI G NI ''G
G BA N F' AJ G I D X TK NGGJ "" G IA DF CI \
IA + OA GM G MG"O G A G =AC " G' IA T I GM
G ADBA \ X ADF 'E FE M D FE A A FE F' J
BK IA AFEG 'FB"A JADF' J GM IA CIJ OA E DG A
'C AFEAJ $IA A E 'G ! 'CA GM I E CF"" 'N GM I E
'JA E F' J 'N IF G "J GM I DEA"M BK FJ CA K A"J
M IA PG' 'CA F ' K IF' FE I 'O BK I E GMMA
IA JG I M A A N F' AJ ' IA MG D IF IA A
Q AE ' EAA 'G IF F' K EG N AF I EIF" N G
IA ABK FE A F A E A IA IG"A AF"D E" OA G 'C
M IA TFHAE K E DF FNA I E ! 'CA ' IGD G

= :@@ ' >' H$ ' >' : 9C' ? ? : : 9C'
>' C ; BC = :C ' >' B:' ?<: :' ?<> 8' $@@
> ' <$:C' $ =' ?<> 8' 8 ; C :<(<>@@C'
:7D:H ' 9: <' > ' ' >' 9$E:' @ B:< ' >'
C9>> ' $ ' D:< $ ' ?> @' 9' <:CH:D ' >?'
8 :' $ =' H@$D: ' $ =' 9> ; ' 9$ @' C9> '
* 9 :' 8 $F C <$:C' >' H<>E =:' :$D9' :$<'
H ; B@ D' F$ 8 :C' >?' C9>> F' 9W' B:C '
H< I :C' >' B:' >?' : ' C9 @@ FC' $ '
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$ =' :E:< ' 8 $ C' $=E: ;<:' >' B:' B ; '
C 7H: D:
'& ' >@=' C>@= :<' ' :E:< ' > ' >'
B:' C:<F:$ ' * 9 :' ; C:' >?' 9:' B> ' >'
B:' D> ; : =' ' E @@$F:CY $ =' H@:$\
C$ ' 8 :$ C' >' B:' ; C:=' >' =<$ ' 9:'
> ; 9' 9:<: ; > Y D ' ' ' H
- ' ' ' S '6' ' . >\
E: 8 B:<' M' TOP' ' ' '
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V?A
. >E: 8 B:<

IG"C IGPA CG'E E E EIG "J B AFO GMM F'J IA ABK"AF A IA IG"A AF"D JAEPA F A BG I GM DF FNA F'J E CCAE E G'\ IA JF'NA IA AGM KG F'J FE F"EG IA A"" EIA E BG I G IA TFHAE K F'J IA AF"D J J EG "F A"K EAA F'J MAF M IA DF A DFK CGDA G 'J ML MA A' IAF 'N IA A "" BA FE AF 'AE ! G AE F' E IF "" DF ' F ' DFO 'N 'G A" N G' F C"GOA MG A A K EIG A FE IA G IA PA IFH E MG P F A P FC CAE 'FD 'N G'A I 'N G D 'J 'N F'G IA "" EIG AFEG' G G A I G

X $IA P F A P FC CAE 'MG 'F A"K IFJ F MG D L JFB"A FJ GCF A ' 9" UFBA I IA EA"M 9" UFBA I FE 'A A EG NGGJ F ! G AE F' FE IA' A" N G E UAF" CG "J EF A IA M GD DF (FNA F'J -A CAE A E E FE 'A A "E A'AJ G DG A MF G FB"K IF' IA' I E P A A'E G'E D NI EA A G ' A P F'G IA DF' E @G AAOE GM AEG" G' ' A A'AJ BAMG A EIA G "J JAC JA IF G EFK $IA 'M" A'CAE I CI A A B G NI G BAF PG' IA CF' BA NF IA AJ G'"K M GD IA F'(A AE GM IA CIJ OA E E PPG A E IG EF IA IGPAE MF " 'N IAD

EACG'J DKE A G E"A A GM IA + OA E G' IA KN I DP" AE CA F '"K IF -A CAE A FE BA 'N GG E CCAEEL M " X M DF A E BA 'N IG BA EG EGG' CGG"AJ IA EF J X P FK 8GJ IA A N G 'G JF'NA G IAD IF KG F'J IF A D CI CF A GM "OA 'G IA P FC CAE IF ' 'G EG MFE G O TK AF E IF A N"G AJ G IAF IF IF A IAF J I ' IAEA G JFKE CG'CA ' 'N ' P F" JA CAE @ E IAK D 'J G M NI I IA DF" C G E G'N AE F'J FM A F JE F F' IAK "" 'G EPF A AFPG'E M IAK DFK

%FJ 'A E GG IFJ BAA' EA' BK =AC " G A' 'F X M

' ' *9:' 2 ; J:' >? . ><?>@J' >' 6:D @' ' . ><?>@J' | > 6:D @' . >E: 8 B:< KN' . >E: 8 B:< T 0 ' S' ' Y '3+

! G AE F' E BA B ! G AE F' E D G A # EEA(' A 2
P"K X D E E 'G F NGGJ AEG" G' M EGDA ! GL TOP
AE F' E IF A F EACG'J ' A AE I CI IAK C"GOA I
A" N G' F' J P"FCA BA N ' G IA CG 'C " 8GJ
JAMA' J IA R AA' E TFHAE K I > E D NI K IF' J
F' J J EPGEA GM E F"" F > E P"AFE A EAADA I G DA
NGGJ AFEG' F' J CG 'C " IF IA R AA' E TFHAE K
EIG "J "GGO G IA G ' E A K 8GJ M" A IF A 'G
MG EFOA' E "" J AC F"" G IA BAE F' J EA' J IA
NGGJ CG 'C " IA A ' ' J M >A IF A MG EFOA' E F' J
"" E MMA G ' FE IF A JG'A DK BAE G P GC A
IA R AA' E TFHAE K E DF FNA ' I E P"FCA MG CG'L
EC A'CA EFOA \ G'"K FOA 8GJ G ACG J G JAMA' J IA
M GD PA " \ EG M BK IA B AFC I IA AGM IA PA " N G
 @@ : = $C 9$E: B:F; $ = CH: = 8 @?: 9:<
=:?: D:' 9> C>> C>:E:< B:' =< E: 9:<:; >
9" UFBA I ' AE E 'N IA DPG 'FCK GM IA AF "K
!F " FDA' E G' IA E BHAC GM IA DF FNA IFJ FJD AJ
IF C C DE F'CAE D NI GCC I CI G "J AQ A EG
N AF EFC M CA F IA IF'JE M P AEA' AJ EA"M '
IA MG D GM F J K EIA IFJ ' DF AJ IF EIA G "J
'G IA' BA MG 'J F' 'N ' M "M "" 'N IA GB" NF G'E
G IA E BHAC E $IF DA IFJ CGDA \ M A A FE G
CGDA $IA EAE GM IA FJ EA E A A 'G DFO 'N F
M 'F" AMMG G P A A' IA DD 'A' CG"" E G' GM PF AE
F' J P 'C P"AE CA F ' G FOA P"FCA M EIA J AJ \ B GG
" OA"K ' IA G ' " MA DA '"AEE EGDA "H 'N FE JG'A
G N A IGPA GM F' 'J EP AJ E CCAEE G' $IAK MF "AJ/
MG IF AFEG' C GE K DFK EPAC "F A X $IA IAF E
GM P 'CAE F A 'EAF CIFB"A F' J IA IAF GM 9" UFBA I
FE DG A ' CF A IF' IGEA GM DGE GM IA G JA
#IA IGPAJ G CG'C " F A IA =F IG" CE BK P"FK 'N COE

J"C '#CG"F'J'F'J G DFOA IA'G 'EG A AN''PA EG'
516 EFC AJ' '' IA 'AKAE BK' JAC"F 'N' IA EA"M IA' CIFDP G''
+ACADBA GM' TF K'# F /'F'J' IA' AE "' FE' F' CIF '' GM' CG'L
EP FC AE' '' I CI'EIA' FE' IA' PA PA F'' DF O' MG 'FEL
EFEE 'F G'

*I'I^' CIJ OA'EIA' FE' '' IA 'G"J'J MM C "K' #IA'
O'A ' IF 'EIA'G NI ' G'FCCAP 'I D' *I "A' IA'EFC M CA'
FE' J E F' 'EIA' BA" A AJ' IA EA"M CFPFB"A' GM' DFO 'N' '/
FE' 'J A ''AF A 'IA 'CG'E G'F'' J E" OA' GM' DF FNA'
F'J' IA' A(CA""A'CAE' GM' IA' FJG AJ' -A CAE A '' 'A AJ'
IA ' AEG" G'' $IA' "A A E' GM' # EEA(' A A' ''-G'JG''
G'' IA' "G I' GM' G ADBA /'G'' IA' ' I' GM' +ACADBA '
9" UFBA I' CG""AC AJ' IA EA"M G' AP"K

#IA' IFJ' N F A' JG B E'EIA' EF J' IA IA ' IA' DFEE' FE'
'G 'F'' GMMA'CA' FNF 'E' 8GJ' #IA' CG "J' 'G 'NG' FNF 'E'
IA ' CG'EC A'CA' F'J' A A'' CG "J' EIA' BA' EF EM AJ' IF'
IA A' G "J' BA' 'G'E '' '' CGDP"K 'N' IA' PG" CF'' GBHACL
G'E' EAADAJ' 'E DG ' FB"A' #AC AEK FE' DPGEE B"A/'
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IA' !AA E' X' 8GJ' IFJ' EG' MF ' P GEPA AJ' IA ' BK' OAAP 'N'
9'N"F'J' '' PAFCA' I "A' #CG "F'J'@ F'CA 'F'J'@"F'JA #'
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'X CIB EIGP' !F OA ' A(FC AJ' A A'A(PAC AJ'GM' IAD ' $IA' PGEL
G 'GM' I E' G' =F IG" C'P EG'A E' + ' "AE ' IAK' EF J ' IFJ' F" FKE' GBAKAJ'
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GM' 9"K ' F' NA'A F'' CG'JAD'F G'' GM' F'E'A(CAP 'E CI' COAJ'IA A CE'FE'
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D ' CF AJ' BK' IA' !GPA ' !F OA ' 'L ADA"K' CG' A' A' ' G'A' * IA'' '
AJ' IAD' G'J ' 'A 'F'J' FEOAJ' IAD' EG A AN'' FE' JAPGEAJ' BK' IA' !GPA '
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IA IA 'E BHAC E' A A'H E M AJ' 'L % EIGP' GM' 9"K' IFJ' MG NG A'' IF '
JA ' F'K' C C DE F'CAE' '' '"J'N' AEPG'E B " K' GM' ! 'CAE' G' IA '
F DE' FNF 'E ' IA ' EG A AN' ')M' E BHAC E' IFJ' BAA'' P AFCIAJ' '' IA'
CG EA' IAK' NF A' IA' F'E A E' I CI B GFJAE 'EA 'EA' BK' ?AN 'F"J' !G"A

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> ' ?: :@ FC ' 9> :E: < C <> F ' 9: ' 8 F9 ' 9: ' ' 9: ' K 9 ' >?' ! :H : 8 \ B: < / : << :C ' <> :' >' 3><=' ! D<>H: Y ' $ ' 9$E: ' <: D: E: =' < FC ' ?<> 8 ' 8 ' 3><=C ' >?' ! ' & =<: C ' $ =' &<B<>$ 9 ' $ C :< >' ! <' . ' *9<>F 8 >< > C @: :<C ' ' :D$; C: ' 9: ' $<: ' > ' C ; <: ' >?' 9: ' %; : : C 4<>D: C 8 = ' >; < ! >E: <: F ' 9: ' =$<: ' > ' B: ' H@$ ' / > B: ' ' C 9: ' 9 F 9: ' 8 >C ' =: C <: ' $ =' ?' 9: ' 8 $ ' C: : ' 9: @H $CC ; <: =@ ' 9: ' @@ =>' 9: < ; :< H> :<

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#G MF FE I E FB " K AFCIAJ X IA JAF" A K G DJ"K #
F' J EIF P"K $IA 9F "E GM NK"A 'J > ' "K FEAJ TOP
'G J MM C " AE F' J GPPGEAJ I D ' 'G I 'N / IA
CG ' K EA "AJ ' G Q A F' J TF K # F IA EA"M
CAFEAJ G CGDP"F ' GM IA CG'M 'ADA' @FEC 'F 'N IA
IG EAIG"J GM -GCI"A A' F' J A A' ' ' 'N G A BK IA
CIF DE IA F E A A DG IA GM IA ?ANA' EIA ACG A AJ
IA IAF" I F' J IA EP E $IGEA IG IFJ BAA' "G JAE
' IA G C AE FNF 'E IA BANF' G EGM A' F' J DFOA
A(C EAE MG IA A G E $IA AFC G' GM MAA" 'N I CI
TF "F' J IFJ MG A G"J G $I GNDG G' FE F AFEG' MG
EA A K EA ' A A' EGG'A IF' FE A(PAC AJ
#IA BACFDA ' IA EA A A "F' N FNA GM IA ! F'
%AJMG J X DA K F' J F' G'/ FF' J ' JAMF " GM G IA
GCC PF G' EIA FD EAJ IA "G'A"K IG E I IA
FJG F G' GM IA KG 'NA B G IA GM IA -G J GM IA
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C>8:'9:C $ > ' 9: ' :<:'H;<D9$C:=
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D> C:L;: ' >B@>L; ' *9:' H<>D::=\
F C::8:= C> @ @:' 8H<>H:< >
6$ 9:< :' =:' + := D ' 9$ 'C9:' <> :'
>' 9:<$8B$CC$=>< ', F@$ =' ' 9:'
?>@@> F ><=C Y '%;$ '$;'B$F;:C
=:'@$', : :' = ,CD>CC:' : ' =:CL;:@@:C
@$' 5: :' = & F@: :<<:' $' <: : ;'@:C
H:<@:C' D>8 8 :' E>;C 8 $E:I' =:CH; C
8$ =[' @ :C' H@;C =:' B:C>q F' =:'
E>;C 8 :D <:' : ' H L;:' ' H>;<D:' L;:'
:' =:C <:' L; :@@:' @:C <: : :' >; :C
D>8 8 :' @' :C' B : ' }C> $B@:' ' : 'C' :'
@:C $E> I' :' @:C @; ' : E> :<> C Y >

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K ' 3 $ @ ' ' ' I 'W' ' 5 '
V $ +$ ' K $ =' +$ ' T Y 5 $'
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,@ I$B: 9'$? :< $<=C D$@@:=' + ;<<$ '
>'$DD>; '?>< 9:'<:8$ =:<' + ;<<$ '
$ C :<:=' ' *9 C ' 8$ 'B>@=@ '$??<8'
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<D9:=' 9' 9:' E$@;:' >? $' F<>$' >?
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. : 9:<' $C 4>=' J > C' = =' 9:'
F<>; =' $ =' >DD$C > ' >? $ ' >? 8 '
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' ' '= K + ' D >B:<O TOU'
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' 2<;<' >' 6:D @' ! :H :8B:<M
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3+

, " BA K F' J #CG "F' J FE F" AFJK MG NA 'N E 'J N' FL

TOP +ACADBA

G' ' EA' DA' F CGDPFEE G'

G FE IA A A F' 'N F DG A "AN DF A CF EA MG IA A "E G' $IA N " GM IA D JA IFJ BAA' AE AJ IG""K G'%G I A"" F' J IA R AA' E IA PA EG'E CG'CA 'AJ ' A A E CCAEE A"K CF NI F' J A(FD 'AJ DF'K N AF 'FDAE FPPAF AJ ' IA CG'MAEE G'E FE DG A G "AEE DP" CF AJ F' J E CI MFC E CG "J 'G IG""K BA CG'L CAF"AJ M GD IA G "J %G' JE A A DA' G'AJ I CI 'MG F A"K A A E "" ' A(E A'CA E N'AJ BK IA DGE PG A M GM IA 'GB " K >APB ' GM %G" G' G'A GM IA "FE GM %G I A"" E EA F' E IG IFJ BAA' B G NI G F" EPGOA J E 'C "K G IF A EAA' G'A GM IAD) D E G' F'G IA GM IA D JA A E E G A G IA EFDA 'FDAE/ F' J >APB ' CIF NAJ # `FDAE %F"MG I IF 'N CG' AJ IA IG"A CG'EP FCK * IF A A CF A D NI BA FOA' G OAAP IAEA JAPGE G'E EAC A FE DPGEE B"A G P A A' EGDA I ' E GM IF IAK CG' F 'AJ M GD "AFO 'N G / F' J DA' BANF' G FEO IK IA' EG DF'K A A N " K IA R AA' EIG "J IF A BAA' "AM G BAF IA B JA' F"G'A Y

DAFE A I CI IA -G JE IFJ 'G ' A'JAJ B I CI C C DE F'CAE MG CAJ PG' IAD FNN F F AJ IA N G 'N MAA" 'N $IA JAPGE G' GM F #G A A N' IA CG G'F G' GM F CI "J IA CG'E G' GM F ?ANA'CK DFJA ' 'ACAEEF K IF ! F " FDA' EIG "J DAA $IA A 'N EKDPF IK I IA R AA' DFJA A A K G'A IG IFJ FOA' PF ' ' IA A G" G' F' (G E G P G JA MG I E EFMA K/ F' J I' ANF J G IA D JA EA"M IA A FE F NA'A F" JAE A ' I CI T FK P GBFB"K EIF AJ G P ' EI %G I A"" F' J I E 'E DA' E B G J GP F

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A " G A IA N " GM G IA E IGEA FCQ AECA'CA ' I E
NG A 'DA' FE AEEA' F G E E FB " K
$IA MFDG E CFEOA I CI "" T FK E A ' M GD
@ F'CA IFJ BAA' ' IA IF'JE GM TG G' FE BK I D
G' IA o I GM #AP ADBA P"FCAJ ' IA CIF NA GM IA
?ANA' $IA ?ANA' 'JA GGO IF IA "A A E F'J
'NE I CI CG' F 'AJ EIG "J X F" FKE BA AFJK
F'J MG ICGD 'N G IA 9F GM TG G' F'J IA AL
DF ' 'N 'GB"ADA' IF A' A AJ ' G IA Q F A" '
CFEA IA G "J EIG "J CF" G' IAD X G DF' MAE IA
N G 'J F'J AQ K GM IA P GCAAJ 'NE $IA 'NE
I CI FE JAE FB"A G OAAP A A IGEA G'"K I CI
FMMAC AJ IA R AA' F'J %G I A"" M FE IA A E AFEG'
G BA" A A IA = F ND ""F %G'J FE ' IA CFEOA F"EG
IA JAE C G' GM FE FE D CI F DF A GM DGDA'
G IGEA IGEA 'FDAE A A A' G' FE IA P AL
EA F G' GM IA AE >APB ' G' IA ECFMMG"J DA'L
G'AJ IA %G'J F'J 'E E AJ IF G "J BA MG 'J
M %G I A"" E PFPA E A A EAF CIAJ G "J BA
FEOAJ MG F'J IA A(E A'CA GM FE JF'NA G E G
F" PF AE MG > ' "K E F'J NK"A E 'FDAE A A G'
 FE A" FE TF "F'J E $IA !F " FDA' FE G GPA'
' +ACADBA P A" D 'F K DAA 'N GM IA -G JE
FE IA"J F IA A'J GM G ADBA $IA M E FC FE
* "" FD + K G' IA KU I 'MG DAJ =AC " FE
G AJ CA IA JF'NA G E JGC DA' G FEIAE f $IA
FC EA"M FE AD 'A' "K 'F F" $G IF A PA D AJ
 DFK PFEE MG F B"G G' T FK E AEC CIAG' M IA
PFPA FE A A ' I E IF'JE/ DG A P GBFB"K FE

TOP
+ACADBA

 , :D><=C >? 9 :'!D> C9'6>; D@' D9 :?C ?>< 9 :'8 ;<=:< F >? 9 :'# F
H< :=' ! C ;< :=' > $C9 :C' 9 :' C$8 :' 9$'
 '&E C>C =:' ,CD>D $' < ' / D> D:< C 9 :'%; : : C H$<' :H ' >'B:'
C9: % ! C>E: 8B:<
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9: =' 9 :' $8 :C $ ='D! ;C: C >? 9 :

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= P(' 'A A ' F""G AJ G AFCI I E AKAE VA 'A A' M ' FE
TOP JP A I I E M ""AE 'CG 'EA' ' I E CG 'J C 'D NI ' A""BA
+ACADBA JAMA 'JAJY $G P ' EI A A K G 'A IG FE F ' AJ I
CGDP" C K ' ' IA D JA ' FE E DP"K DPGEE B"A ' $G
F ADP ' ' G "J BA G B AFO P IA 8G A 'DA' ' G E L
A 'JA ' #CG "F 'J G C "" F ' G MG A N' ' ' FE G' ' F 'J
G F M A ' ' I CI ' 'G I 'N FE CA F ' ' B ' E D EA K '
' ' IA PAGP"A IG A A E 'N ' G PG A ' BAKG 'J IA
C C"A GM IA -G JE IA A FE F MA J F 'J JAAP G 'AJ
A" N G' \ B ' ' FE =F" ' ED ' ' E IF JAE MG D \ '
=F" ' ED DG "JAJ ' ' IA M A CAE E FA" EI PF A ' '
M A CA I"AEE F 'J ' DF 'FNAFB"A $IA 'GB"AE IADL
EA" AE A A MG ' IA DGE 'PF ' IG ' 8GJ ' C AAJ ' G '
P 'C P"A/ I "A 9 'N"F 'J F 'J @ F 'CA \ OAA' ' GBEA A E
GM F"" IF 'PFEEAJ \ A A AFJK 'AFCI ' G 'BG I ' GM IAD '
G E AP ' ' G ' ' IA M E 'E N' ' GM ' A 'F"CG 'M E G' ' $IA A
FE E "" ' ' #CG "F 'J F EDF""D 'G K GM EA ' P NI '
'GB"A D 'JAJ DA' ' IG G "J IF A E GGJ BK T FK
IFJ IA A BAA' ' F 'K CIF 'CA IF ' T FK CG "J I DEA"M
E F 'J M IA GGO F 'G IA 'CG EA ' % ' G JG I E IA D E '
IF A BAA' ' FB"A G EFK G 9" UFBA I ' X $I E ' FD P"FCAJ ' F 'J
I E E #CG "F 'J P"FCAJ/ IA"P E I G NI ' IAEA JF O
A' F 'N"ADA' E ' F 'J AF ' ' IA N F JA GM A A K #CG '
IG IFE IA MAF ' GM 8GJ ' ' I E IAF ' # CI ' G JE
G "J IF A MG 'J F AEPG 'EA ' ' =AC " ' B ' IA D NI ' FE
A . ' F 'J A"" IA O 'A ' ' IF A AJ G DA" ' I ' I E
A"GQ A 'CA IA GCO GM 9J 'B NI ' =FE "A FE IA 9 'N" EI '
R AA' ' $G IA DGJA ' ' E JA' ' IA N " ' GM F"" PF AE
IG A A DP" CF AJ ' ' +F ' "AK E D JA 'FPPAF E A K
D CI ' IA EFDA ' $G IGEA IG A A B AJ P ' ' IF '
"J FNA F 'J " MA ' F E FB I ' F J O FE F ' ' G J 'F K
A(GJ E G ' GM " MA ' F ' ' G J 'F K MAF A GM PFEE G 'F A
A A 'NA ' / I "A IA CG 'EP FCK GM F MF I "AEE MA F 'J

IA FEEFEE 'F G'GMF' 'CG' A' A' I EBF'J A AC DAE ' , '

I CI IFJ BAA' F" FKE 'MFDG E

TOP
+ACADB

$IA -G JE G "J PA IFPE IF A A(A'JAJ IAFD'AE K
G IA R AA' F'J T FK GB G E"K EIAJ IF I E
EIG "J BA JG'A/ KA IA A(NA'C AE F'J IA JF'NA GM IA
G IA C "P E FNF ' P A A' AJ A A'H E CA $IA -G JE
A A" FB"A G BA CF""AJ 'Q AE G' BK IA 9 GPAF' !G A E
MG JA I G' 'N IA EG A A N' $IA ' G' FDG'N IADL
EA" AE \ "" CADA' AJ FE FE \ D NI J EEG" A G F A GL
" G' D NI AE G A TF K' # F G IA I G'A BK IA
F J GM G'A G G IA GM IA DF'K MFC G'E FDG'N IADL
EA" AE $IA D F" EAC K AQ AJ IF IAK EIG "J
F"" CGDD IADEA" AE G F' FPP G F" GM IA R AA' E
JA I G'ADA' F'J G F MG DF" E F ADA' GM IA N G 'JE
G' I CI IFJ BAA' CF AJ G $IAK A A AFJK
G JAMA'J FE IAK CF""AJ IA R AA' E IG'G / G OAAP
EAC A F 'G'N IADEA" AE IA P GGME I CI IAK PGEL
EAEEAJ GM IA C D 'F" K/ B IAK CG "J FMMG J 'G
DKE A AE G'A G F JE IA G IA / F'J EAADAJ DPGEL
E B"A I F E MM C A' ANF J G IA G ' EFMA K G
F G J PFEE 'N EGDA MG DF" CA'E AE PG' IA EACG'J
DAA 'N FE IA"J G' IA N I GM +ACADBA G CG'E JA
IG ' CFEA IA R AA' E JAPGE G' EIG "J BA FPP G AJ
' !F " FDA' X PA MAC "F F'J EAC K D NI BA IFJ
MG IGEA IG A A CG'CA 'AJ ' MG C 'N PG' IA
DG'N IA PA EG'E P AEA' A A T FK 8"A'CF '
#ADP"A 8 F'NA \ GM F"" IA ! G AE F' "AFJA E IA"AFE
CFPFB"A GM J EIG'G FB"A CG'J C TF "F'J F'J %F"MG
A A IA A F"EG IA G IG IFJ DGE G CG'CAF"
$IA ?ANA' FE F" AFJK EI 'O 'N M GD TF "F'J 'G
"O 'N I E XPG" C F'J C GGOAJ FKE B IA CG "J 'G

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5>B:< ' + :@E @@: ' =:H@> :C 9:' F<> ($B @ ' $ =' 9:' 5:F: ' <> F:='
F= ??:<: D:C B: : ' @ :8 ' +$ \ 9 8C:@? ' >' 8$ @ F @$<F:<' ;C:

JG IG I D/ F'J $? :< @> F <:$C> F > > 9:<
FK G IA GBHAC CG "J BA MG 'J XB FE IAK EF J
TOP
+ACADBA GPA' 'N F'J A AF" 'N IA I F'J N G 'J GM IA
IG"A DF A M GD IA BAN '' 'N P"F '"K F'J PL
NI "K X #G MF FE IA DF' MAE F G' IA AGM D NI
A'J G IA J EIG'G GM IA R AA' IAK A A DGE
"GF I G A' A G' /B X IA E 'CA K GM IA ' A'L
G' CG "J 'G G IA EA BA DFJA O'G '/ X IA A
FE EG D CI 'CA F ' K F IGDA F'J FB GFJ IF
X IA G "J CG "J BK 'G G IA DAF'E BA EF EM AJ GM IA
NI AG E'AEE GM IA Q F A"/ X 8GJ G "J E M"$A 'G
COAJ'AEE G BA I J'F'J F""FC G'E MG 'JAJ 'G G' IA
E DP"A F'J 'FOAJ I IFJ'G CG' ' F'CA G E FB " K
$IA C DA I CI TF "F'J IFJ CG' ADP"F AJ FE EG
J MMA A' M GD F'J FE IA ANF JAJ EG D CI DG A
''GCA' IF' IF I CI IFJ BAA' FC F""K PA PAL
F AJ IF IA DFK IF A ADP"GKAJ I E"F'N FNA IL
G F'K EC P"A GM CG'EC A'CA $IA P B" CF G' EA"M
FE 'G DG A IF' IA IFJ G"J IA 9 'N" EI DBFEEFJG
IF 9" UFBA I G "J MG CA PG' IAD
$IA !F " FDA' DA G' IA T I GM +ACADBA
@G B EIGPE MG AA' FBBG E A" A AF "E M M AA' "G JE
I AA A"JAE EG'E GM AF "E F'J I K XB G E A
P AEA' /F ' DBA GM IA AP AEA' F AE GM X IA =GDL
DG'E IG P ACAJA' ' #CG CI I E G K EA AE
GM C E ADBGJK 'N IA AEG" G'E GM IA =G 'C " A A
P APF AJ BK IA -G JE GM IA C"AE \ FDG'N IGD
A A > ' "K F'J NK"A

>?' 9 C' C:<E D:C' / :' $= 8 :=' 9> \ S ><=' >?' 4 >= Y 'F - ' '
:E:<' 9$ ' + $ @$ =' 9$=' $ ' ' >@:<\ ' + $ ' O' ' !'
$B@ ' ' 9 F9' >H > ' >?' 9 8C:@?' $ =' E>@'
=:C <:=' >' = D $:' ' :E:< 9 F' ' &D 'G ?! :D<: ' 6>; D @' 2 :D 'N Y '
$DD><= F' >' ><@=@ ' H>@ D ' @ @:' % 7G', 9$' ' E>@'
9:' 5 :F: ' : =:$E>7; :=' $ ' = <:D' H * 9 :' C9$<:' $J: ' B ' 9:C:' >'
$@@' 9 C' D> = ;D ' 8 8 := $:@ ' B ' 9: >B@: 8 : ' ' H<:H$< F' 9:' &D C' >?

$IA FBJ CF G' F -GCI"A A' IA CG G'F G' GM `FDAE 'T3
F' J IA ?ANA'CK GM T FK A A E CCAEE A"K JAC"F AJ
G IF A BAA' "F M "/ F' J "FE "K ' F' C X F'A' IA
A A' G' GM IA #G A A N' -G J E DG IA E PA EG' IA
NA' 'A'AEE GM IA A JA'CA BK I CI IA EIF A ' IA
D JA FE P G AJ FE FCCAP AJ FE BAKG' J JG B G
Q AE G' * IA' IA DAFE A FE "F J BAMG A ! F L
"FDA' -G J >A AE I G'A G G G IA E P G AE AJ
'G FNF 'E IA I GM IA CIF NAE B X FNF 'E F'
C I CI FE P AH J CF" G IA IG'G PG A F' J
AE F A GM IA R AA' % IA GBHAC G'E A A
G A "AJ $IA C E A A PFEEAJ/ IA "FE F' J DGE
DPG F' JAC"F 'N X IF IA FO 'N GM F DE BK IA
-G JE F' J %F G'E IA FPP AIA'E G' GM IA R AA' E
PA EG' F' J NA'A F""K F""" G IA I 'NE EPGOA' F' J JG'A
BK IAD G IF AMMAC E 'CA IA "G I GM @AB F K "FE
PA GJ A A CF EAJ BK IA EF J R AA' E G ' JAMF "
X FE DGE CA F ' M GD J A E IA P K "A A E
A' IG""K I IA G ' IF' J G IA 9F " GM %G I
A"" F' J BK IA 'NGJ"K F' J J EIG'G FB"A P GCAAJ 'N
G F P A A' JAJ DF FNA I I D IF EIA FE P K
F F' J PF GM IA JA CA F' J JAAJ GM IA D JA F' J
IA AMG A H E "K JAEA AJ IF A A IFJ BAA' JG'A G

9 C 1$<@ $8 : 9$E: $ 8H><\
$ B:$< FC > 9: $; 9: D '>?
9: 6$CJ: 3: :<C *9: @: :<C
?><8 := 9: D9 :? F<>; = > 9 D9
> : >? 9: &D C $C B$C:= 3><=
/ ; @ $C <:H:$:=@ 8: > :=
 9:8 9 =: $ @C >? 9 C D> =;D
9 D9 D>;@= 9$E: B:: J > > >
> : B; 9 8C:@? $ = 9: %;:: ' $ =
9$= > C;D9 D> E:<C$ > C $J: '
H@$D: $C 9: %;:: =:CD< B:= > :
D>;@= 9$E: D> <$= D := 9:8 8><:
:$C @ &<F = $ = 9: = : : = =:\
D@$<:= 9$ 9: < $CC: $C D> = \

> $@ > 9: %;:: C $DL; :CD: D:
$ = 9: H;B@ C9:= $ C $:8:
9 D9 9: $DD;C:= + ;<<$ >? 9$E F
B:: H< E > @ : 8 ;<=:< : 9: C$ =
> 9 F $B>; $? ><F:< >? 9: @: :<C
9 D9 ?<:$@ 9: D>;@= > B; 9$E:
J > $ = 9$= 9: B:: $B@: >
H<>E: Y 9$= 9: B:: $B@: :E:
H@$;C B@ > $CC:< Y 9$ 9:<: 9$=
B:: ?>;@ H@$ F C 9: %;::
9: 9>@: >? , ;<>H: >;@= $ > D:
9$E: =:D@$<:= > 9:< C =:
 @:<< :C > + $< ! ;$< Y , -9$
E>@ H MUP

TOP
+ACADBA

TOU $;$<

IA ' 'J AC ' CG 'EA" F'J' DAF'E' IFJ' BAA'' EAJ' G' IG"J' IFCO' IA' O'G "AJNA' GM' IA' I ' KA ' F.' DA'' A A' M ""K' PA E FJAJ' '' IA ' IAF E' GM' IA' F IG E' F'J' JA EA E' GM' IA' MFC ' $IA' 'GB " K' PA CA 'N' IA' R AA'' EG' I F"" F'J' EG' B" 'J"K' FMMAC G'F A' G' IA' P F A' FPPA A' GM' IA' K F' ' F'J' PA CA 'N' F"EG' IF ' BG I' IA' F'J' EIA' IFJ' CG'EP AJ' GNA IA ' E CI' IG B"A' C A" K ' IAK' IFJ' F ' "A'N I' FOA'' P' F DE' G' P ' EI' IAD '

' M E ' ' FE' P GPGEAJ' G' EA'J' F' CGPK' GM' I E' C ' G' IA' =G E' GM' @ F'CA ' #PF ' ' 9'N"F'J ' F'J' IA' 9DP A ' G' FCCGDPF'K' ' 'G ' I' IA' "A A E' B ' I' IA' 'JAPA'JA' ' A JA'CA' GM' IGEA' IG' IFJ' J AC "K' FCC EAJ' IA' R AA' \ MG ' 'E F'CA ' I' >APB ' E' \ F'J' G' A'Q A' IF ' '' IA' GP ' G'' GM' IA' N AF ' !G A E' FE' IA' CG'J C ' IAK' G NI ' G' P E A' >FJ' IA ' IF'JE' BAA'' C"AF'' IAK' D NI ' IF A' JG'A' ' TF K' # F E' CF EA' G "J' IF A' BAA'' H JNAJ' M AA"K' BK' IA ' PAA E' F'J' IA ' 'FDA' G "J' IF A' F' EIAJ' G ' GM' I E G K/' B ' IA' A(PA DA' ' A(CAP ' '' PF ' FE' GG' JF'NA G E' G' EO

>F 'N' JG'A' I' IA' R AA'' IA' !F " FDA' ' A' 'G'' G' A A'FC ' IA' N AF ' DAFE A' GM' TO ' MG ' IA' AE FB" EIL DA'' GM' IA' 7 O' >A A' ' FE' IF ' IA' AFC G'' GM

' C E' GM' !F " FDA' ' AN '' F' 9J 'B NI ' +ACADBA ' 5 \ %/< ' -3 & ' $ *C $

'X` F'' >API I' JA' %G" G'' IF' FC EFJG' h' "F' ?AK'F' JA"' IGD C J G' K' "GE' #A[G AE' A'A'' JA A D 'FJG' JA' A' F 'h' GJGE' "GE'N F'JAE' ! 'C L PAE' FE ' h' "F' ?AK ' F' CGDG' h' GJGE' "GE' JADFE' JA' "F' , I ' PF F' A'A ' E ' PF ACA ' FJG'P GCAJA 'F A' G'A"'JA" C G' JA'"F'D A A' JA'E 'DF JG ' >APB ' E' A JA'CA ' FE' ' E' P B" EIAJ 'JGAE' 'G ' G CI' IA'R AA' ' FE'WG 'J'PA IFPE IF ' M'EA' ' 'D E 'IA'EA' 'A' A 'F'J' IF ' IA' IFJ' G"J' GG' D CI ' $IA A' FE' F" AFJK' J EEF EMFC G'' '' #CG L "F'J'F ' IA' E PPGEAJ' D "F G'' GM' >APB ' E' JAPGE G'E' TA'' FEOAJ ' XPG Q A' ` F'' >APB '' JA' %G" G'' K' "GE' G GE' 'G' M G'' CGDPA JGE' h' JAC"F F ' P B" CFDA' A' "F' DF'A F' JA' "F' D A A' JA"' ?AK ' K' Q A'AE' M b G'' "GE'Q A'CG'E ' b G'' A'' A""F \ ' ' + ' ' = ' ' '= ' TOU' Y ' '

IA "FE EA A' KAF E BACFDA CG'EP C G E F'J Ib
GPPGE G' G IA ?ANA' I CI BF A"K EIG AJ EA"M '
IA ' A AE GM IA R AA' FPPAF AJ ' MG D JFB"A J DA'L
E G'E $IA =F IG" C 'GB"ADA' D NI IF A BAA' CG'L
C " F AJ I G"A F G' B G"A F G' MG DAJ 'G PF
GM T FK E G F'K G IA E 'CA A C AAJ ' IA 1 I CA'L
K > A 'E E AJ IF IA =F IG" C A" N G' EIG "J BA
P GI B AJ 'JA PF ' GM JAF I ' F"" PF E GM #CG "F'J H
F'J IA CF AJ I E PG ' B F F IAF K CGE =F IL
'AEE F'J IG" F'J IA % EIGP GM T FK EPGOA M AA"K
F J 'J N'F' "K MG IA NI E GM CG'EC A'CA F'J IA
"F NA D 'G K I CI E PPG AJ IAD A' G A ' F
BGJK F IA C"GEA GM IA EAEE G' G IA E JA GM J EFMMACL
G' F'J IA >FD " G'E

=GDP GD EAE IA A 'JAAJ A A/ B CGDP GD EAE
I CI EG NI G EF A IA P K GM IA MF I F IA
A(PA'EA GM IG'G F'J ' AN K $IA C E FNF 'E
IA R AA' P GPGEAJ G A"" IA IG"A I F'J
G"J B IF"M GM = =GDD EE G' FE FPPG ' AJ
G CG'E JA IA " D E GM IA ` EJ C G' GM IA
7 O TF "F'J IG BA" A AJ ' 'G I 'N F'J %F"MG
IG IFJ BAA' A F JAJ MG I E AFCIA K G %G I A""
BK IA ! G K GM ! A' AAD EF A PG' BK IA E JA
GM 7 'G(F'J = F N F'J #PG E GGJ $IA E F'NA'AEE
GM IA P C A ACA AJ F'A G CI ' IA P B" C EIFDA
I CI IA 8A'A F EEADB"K JF AJ G 'M" C G' IA
P G JAE GM IA #CG CI 'GB"AE F'J I CI IA N AF
TC=F"" DDG A CG'EA' AJ G FCCAP F E IF'JE $G
P ' EI IA' % EIGP GM T FK MG I E CG'J C '
!F " FDA' F CIF NA GM FJ " A K FE B G NI FNF 'E
I D MG I CI IA E GGJ ' EFCOC"G I ' IA =IFPA
?GKF F # " 'N J 'N IA EA CA I E E JA
E GGJ IA 9F GM NK"A ' " OA F DA' MG IA
" OA GMMA'CA F'J IA =G ' AEE GM NK"A F"EG IA

TOU
`F' F K

C 9ANA' E E E A X MG IF 'N E"F'JA AJ IA 7 O '
TOU FEE E 'N F IA BFP ED GM IA 7 'N ' ! FP E CF"
$;$< $: < ' '

$IA DGE CG'M JA' I E G F' DFK A"" J E E I E FB " K A IA G 'JA E F'J G G AP GJ CA IA ADPA GM F' FNA ' I CI E CI F ECA'A FE PGEE B"A $IA P B" C J EN FCA GM I NI BG ' E ''A E IG A A CG "J IF J"K IF A FEE E AJ ' P GJ C 'N IA PAFCA MG I CI EG D CI A"EA FE EFC M CAJ/ F'J EGDA I 'N GM IA E G D FBG G B AFO G A #CG "F'J DFK BA FCAJ G F' FBEA'CA GM G "J"K EJGD ' IA 'A BG ' =I CI

A A IA"AEE 'A IA IA PG" CF" 'G IA EP F" D ECI AME I CI AE " AJ M GD IA ! F " FDA' A A DDAJ F A"K E B"A $IA ?ANA' EAADAJ G IF A JAJ G A I E DGE P AEE 'N J MM C " AE $IA N AF 'GB"AE A A G F J"K G' NGGJ A DE I I D/ F DF FNA FE F"OAJ GM BA AA' I E JF NI A F'J F EG' GM -G J > ' "K F'J BA AA' -FJK T FK E E E A F'J F B G IA GM NK"A $IA EAEE G' C"GEAJ G' IA KQ I GM +ACADBA) ' IA M J GM `F' F K +F"N"A EI ! G A >APB ' F'J >FK GM $F""G A A IF'NAJ F'J Q F A AJ ' JFK G G FM A CIG"FE 9"PI ' E G'A T FK E CG'M JA' F" EAC A F K CF AJ CGP AE GM IA C E G 9" UFBA I I A(P"F'F G'E EG MF FE A(P"F'F G' FE PGEE B"A GM IA N G 'JE G' I CI IAK IFJ BAA' PFEEAJ 9" UFBA I E F'NA G "J 'G IF A IFJ DA G CGG" F'J FE IGPAJ IF G' F Q A A GM IA E F G' EIA G "J BA 'J CAJ G FOA #CG "F'J 'JA IA P G AC G' FCO'G "AJNA IA ?ANA'CK F'J ' IA IAF GM IA IG"A 'F G' BK FJGP 'N `FDAE FE IA G ' E CCAEEG f

EGE JA 9ECGC F 6 9 'A G \ ' . 1, ' "APG GM IA 8A'A F" EEADB"K +ACADBA U5 \ )
I T JA "F @G AE F ?GK @AB F 510 5 $/ $ G"

$ I E E E A T FK E IGPA FE IF BK EGDA GBEC A 2
DF FNA EIA D NI F G'CA J EFPPG ' IA >FD " G'E
F'J N A EAC K G IA CG ' K MG IA M A BAIF G
> E DG IA IFJ "GGOAJ I ' A AE AJ MF G G' IA
' DFCK I CI FE N G 'N BA AA' IA KG 'NA EG'
F'J IA R AA' TF K # F A IA G A" A A IA
"FEE JA GM IA CG'M 'ADA' G DG A P GBFB"K G EAC A
IA EA CAE GM F JA G AJ E"F A G FEE E IA AECFHEA IFJ
F""G AJ -FJK +G N"FE G BA" A A IF EIA FE I 'O 'N
EA G E"K GM FO 'N I D MG IA I EBF'J F'J -FJK
+G N"FE FE A' A"K "" 'N IF IA EIG "J BA P GDG AJ
G EG Q AE G'FB"A F' IG'G $IA ?ANA' IG A A
DG A F F A IF' I E DG IA GM IA CG'E C G' I CI
IA G "J G "J P"FCA G' E CI F' F F'NADA' AM EAJ
G IAF GM 8AG NA +G N"FE FE EA' M GD IA CFE "A
G 'A "G AE CO ' G AFEG' F'J IA ?ANA' CFE I E
IG NI E PG' -G J TA I A' N F'JEG' GM IA
TA I A' IG FE IA I J I EBF'J GM TF NF A
$ JG FE F PA EG' IGEA 'E N' M CF'CA G "J OAAP
TF K # F ' IA EIFJA F'J IG"J JG 'IA AE "AEEL
'AEE ' ''GCA' A ADA'

% 'A IA FE IA R AA' GM #CG E G BA J EPGEAJ
GM BK F'K E CI P"FC J F F'NADA' 'G FE T FK G
AFP EG Q A F IF AE M GD IA EAAJ I CI IFJ BAA'
EG 'F IA !F " FDA' ' JG B FE NF IA 'N G A
I E P GB K I G NI IA CG'CAF"DA' GM%G I A"" E FCCGDL
P" CAE / F'J IA 'GB"A MFD " AE GM #CG "F'J A A AFNA G
A G" FNF 'E IA JAEPG C FEE DP G'E GM IA 7 O
$IA EA A K GM T FK E FJD ' E F G' DFJA F'
A'ADK GM A A K DF' IG IFJ CF EA G MAF IA IF'J GM
H E CA 9" UFBA I AE E AJ I E FJ F'CAE I F E AFJ L
'AEE I CI MG CAJ I D ' EP A GM I DEA"M G "GGO G

 +A # " F G !" " P P " 3; 510 \ 9 BB B & C&/ + G =AC "
P " 510 L #& +* 9 BB

/ $ 3 $% 4 & +

C @ F 'CA F " "FE MG E PPG / B I E FPP" CF G' CFDA
TOU F F DA IA' IA A ' 'N 'M" A 'CA GM IA 8 EAE
FE 'C" ' 'N =F IA 'A G 'CA DG A G IA E JA GM IA
JF NI A ' "F
=AC "" CG ' ' AJ G P AEE G' 9" UFBA I IA P JA 'CA GM
DF ' F ' 'N IA KG 'N O 'N B ' 9" UFBA I ADF 'AJ DL
P FC CFB"A =AC " ' I E G ' "A A E G T FK J E ' G
N A I D IA "A GM 7ANA' ' F 'J DG 'B EK ' FNN FL
F 'N IA J M A A 'CAE BA AA' T FK E PF K F 'J 9 'NL
"F 'J APG AJ IF ' IA 9F "" IFJ FOA' GMMA 'CA F ' IA E" NI '
PG ' I E J N' K ' $IA A FE 'G MAF ' IF ' T FK F 'J
=AC "" G "J PA DF 'A' "K D E 'JA E F 'J AFCI G IA 'B '
IA R AA' G "J F""G ' 'G O 'J GM FPP GFCI BA AA' '
IA 8G A 'DA' E GM IA G CG ' AE 9"PI 'E G 'A
A' ' G F 'J M G I DAEEFNAE F 'J CG ' A DAEEFNAE
B ' 9" UFBA I ACGN ' EAJ I D G ' "K EG MF ' FE G B K IA
R AA' GM #CG E PAF "E GM I D/ F 'J F ' "A 'N I G CG 'L
EA' ' IF ' IA * F JA 'E GM IA 9 'N" EI TF CIAE EIG "J
F 'EFC ' B E 'AEE I IA +* %&C $ FJD ' E F G' '
$G F JE 9"PI 'E QPA I DEA"M EIA EIG AJ CIF FC A E C
J EP"AFE A "" IA P G AE E GM IA =G 'C "" CG "J ' G '
'J CA IA ' G DFOA IA E F"" F""G F 'CA MG ' I E PGE
IG EAE F 'J $I GNDG G' CG "J B 'IGPA IF ' X EG NGGJ
F NA' "ADF' G "J ' G ' MG ' I E PF C "F ' "" AF DA'

' * ' &H< @ + ; <<$ 'C: ' $ ' $F: ' ' + ; <<$ ' 9: ' 9 :'C >< ' <: $D9 :='
>' 1$< C >' :@@ 9 :' %; : : (8 > 9 :< 9 8 ' <> : ' A><'C @ :'>< @ : ' '$8 '
$ =' 9 :' # F' 9$ ' :7D :H ' ?>< 9 :' H<$ C :' >' 4 >=' > 9 F' D; < >; C' ><
9>H :' 9$ ' 9 : ' > ; @=' $CC C ' 9 8 ' 9 :' $ 8 B >; C' >?' 9 : 8 Y 8 ' <E @ : =\
> ; @=' :E :< 9$E :' ; =: < $J : ' 9 :' F' ; >' $ > 9 :<' ?><8 ' 9$ ' C' :7 '
F>E :< 8 : ' / :' ; =: < >>J' >' 8 $ \ >' 4 >= C' F@>< ' >' : :< $ ' 9 :' H :$D :'
$ ' 9 :'A<: D9' $@@ $ D: ' $ =' B :FF :=' $ =' 8 C :<' ; C D :' >' 8 ' ! >E :\
9$ ' > :' >?' 9 :' %; : : CA<: D9' D> \ <: F C' C ; B :D C' C>' @> F' $C' ' C9$@@'
:7 > C' C9>; @=' 9 :' $@@> :=' >' D>8 :' H@ :$C :' 4 >=' 9$ ' ' C ; C $ ' 9 :'
>E :<' >' <> ; B@ :' 9 :' H :$D :' >?' !D> @$ =' B ; <=: ' Y ' 9 , &3' $' *C ' A :\
L 9 N $ & + , '+ , '&4* ' +*' 9 , Y B<; $< 'KU TOU' ; K $' 1t : (U'
&3 ' * '$3N' ' * /' *' $3' +*' & C*' *' &' E>@ '
* *' 9 Z *' 5 $ ' E>@' ' H ' ABC

JG F'K I 'N I CI D NI DF IA NGGJ ' A"" NA'CA 2
BA (IA AF"DE IG A A E MM C A' CF EA IA A TOU
D NI IF A BAA' G P IF JA G G' G IFUF J
@ F'CA EA' B CG"J F'E A E ' IA PFE F D'
=F IA 'A CG "J 'G M 'J G JE E G'N A'G NI'X G A(L
P AEE IA 'J M A A'CA G IA R AA' G IA NGGJ "
G IA JD ' E (F G' BK I CI EIA IFJ BAA' JAPGEAJ
G FM A F EIG 'CA F ' K IA BF"F'CA 'C" 'AJ
FNF ' G TF /K # F ' IA P"FCA GM IA > N A'G JA
- N'A G""AE T JA %AF DG' F 8 E F' F' J F =F IG" C
FE EA' G #CG "F' J G DAJ F A ' IA R AA' E ' A AE E/
G ' 'G IA G JE M IA ?ANA' G "J 'G CG'EA' G
I E E NNAE G'E' G ACGN' EA F' J FEE E IA >FD " G'E
. 'JA IAEA C C DE F'CAE CG "J 'G BA B IF
EGDA AMMG G "J BAMG A "G'N BA DFJA MG TF K # F E
A"AFEA #G "G'N FE EIA ADF 'AJ ' -GC I"A A' G EA
' F DE ' IA CF EA G "J P GBFB"K BA IA E N'F MG
IA JAF I/ B I IA FEE E F'CA GM 8AG NA +G N"FE
EIA FE ' C"GEA CG AEPG' JA'CA I IA M A'JE #IA
IFJ CG'MAJA F AE ' IA CFE "A F' J FE OAP F F A GM F""
IA AMMG E I CI A A BA 'N DFJA ' IA MF G E
IA IG"J GM IA ?ANA' PPG' #CG "F' J N A AFOA F
NA'A F EA'EA P A F "AJ IF EIA G "J 'G BA D CI
"G'NA F P EG'A \ A IA EIA G "J AECFPA G IA B G IA
I DEA"M G "J BA GB" NAJ G "A IA NG $IA CGD
P(GD EAE F IA !F " FDA' IFJ MF "AJ GM IA AMMAC FM A
F"" T FK IFJ A' F'N"AJ I DEA"M ' C GGOAJ FKE G

' *9<>F8>< > ' >' ! < S 8 ' 2<8 '
+$ 'L 6 5 $ $' 2 '
H *9:' <:H@ '>? 9:' A<: D9' 6>;<'
>' + ;<<$ C 8 : 8>< $@ C H<:C:<E:=' '
E<>' =<$? C >? $'@: :<' > :' >? 9 D9'
$C $' 8 :<:' $D@8 > @:=F 8 : ' 9$'
'9$=' B : : '<:D: E:=' 9:' > 9:<'B '
9:' $== > '$ =' $@ :<$ > '>? $' ?:

C: : D:C' C 8>C' 8$<J:=@ '?$E>;<\
$B@:' >' +$< ' ! ;$< ' S 9 D9' >? 9:'
>' $C C: '=>:C >' $HH:$<' B;'
9:' =:' $C= ; F'$ =' 9:'C:D> ='
<:H<:C: :=' 9:' : =:=' H>@ D ' >?
9:'%;:: (8> 9:< Y 5 'E>@' '
H' P

, 3 d ' ' ' !

, ACG'C"A NK"A F'J > '"K G IA 9ANA'CK/ B IA'
510 IA PFPA E I CI CGDD AJ IAD A A '' IA M"FDAE
+$<D9 IAK MG""G AJ IA ''F F"' A'JA'C AE F'J E FKAJ BFCO
G IA >FD "G'E F'J IA =F IG"CE > A IFJ E CCAAJAJ
G'"K '' GMMA'J 'N IA 'GB"AE GM I E G '' M A'JE F'J
IA G "J BA" A AJ IF IA G "J A IA MF""' G CGDA G
F'' F F'NADA' I I E E E A

A IA EIA IG A A ' 'G IA >FD "G'E JAE AJ
IF EIA EIG "J P CIFEA IA M AAJGD BK F'K M AEI
A'NFNADA' E/ F'J I G NIG IA EP 'N E CCAEE A
P"F'E A A MG DAJ F'J AJ MG IA AECFPA M E
FE P GPGEAJ G CF K IA GMM BK F CG P JA DF ''
$IA A A A B I K AMMAC A DA'' '' IA NF EG'
IAF K BF NA FE OAP G'' IA "FOA G CF K E PP" AE
G IA E"F'J F'J IA C A IFJ FN AAJ G MA K G A
F'' F . AJ PF K E (K G EA A' K E G'N IG CGD 'N
E JJA'"K G'' IA N F J CG "J AFE "K G A PG A IAD
@ A'CIDF'' '' IA R AA'E EA CA IG IFJ 'P
BAA'' FJD AJ ' G IA EAC A J ECG A AJ EGDA I 'N
GM IF FE NG 'N G'' F'J E PPGE 'N G BA F
CG' F'CA GM IA ! G AE F' MF'F CE G FOA IA G
GM T FK E IF'JE F'J JAE GK IA IA NF A F I '' G
* "" FD +G N"FE / IA BF NA FE B GOA'' P'F'J
MG IA M A F EO MM EC ""AJ BK F E 'N"A PF GM IF'JE
FE F"G'A F""G AJ G FPP GFCI IA E"F'J) 'A PA EG''
FE DG A AFEK G JAF"' I IF'' DF'K $IA EG" F K
BGF DF'' FE 'A(B BAJ/ F MG 'J" 'N PFNA '' IA CFE "A
IG IFJ BAA'' FJGP AJ BK IA -F J GM -GCI"A A' F'J
CF""AJ FM A I D IA - "A +G N"FE 'JA GGO G EAJ CA

' *9:' C><' ' 9:' :7 ' 9 D9' :CD$H:'$ =' $C C: ' 9 '9:< 8 8:\
=??:<C ' C>8:' <:CH:D C ?<>8' 9$' = $:@ '$? :< >' 3> => '$ =' 1$< C >'
9 D9' C D>8 8 > @ '<:D: E:=' C 9:' D>8 8 ; D$:' 9:'H$< D;@$<C >?' Y(
$DD>; 'F E: '9 ' >; F' : > ' >' 9:' 2:' . ' ' ' 8:' Y ' '
!H$ C9' &8 9 CC$==<' 3> => ' '
': > ' $CC C :=' H:<C> $@@ ' ' 9:<

IA EA' 'A"E GPA' IA NF A ' IA ' NI F'J B 'N IA '# '
R AA' G IA F A E JA $I E P"F' I AF A'AJ G
F " # * "" FD +G N"FE I G NI EGDA E EP C G' GM
IA DF' J ED EEAJ I D F'J FPPG ' AJ F'G IA / B IA
MG 'F A"K Q F A""AJ I IA E BE A FM A F MA
JFKE F" AP"FCAJ IA M E F'J F"" FE I E DFJA
AFEK FNF ' $IA G A NF A GM IA CFE "A FE A A K JFK
"GCOAJXF E 'EA IA OAKE A A B G NI G +G N"FE
F'J A A "F J G' IA FB"A F I E E JA ') ' IA A A' 'N
GM IA EACG'J GM TFK BA AA' A NI F'J ' 'A\ PA IFHPE

' & > 9:< C >< ' $C >@=' B ' ! < S 8 ' 2<;< ' $ = $C <:H:$:=' B ' =:' ! @E$' > 19 @ H ' 2:' ! @E$ C >< =C $<:' $' 8 :<:' <$ C@$ > ' >?' 2<;< C' $ =' 9:' 9$=' :E =: @ ' > > 9:< $; 9>< ' ?>< 9$' 9:' $C < F
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F' J IF IG'G IA A IA A ' G FD ' CF' G' "K BA J EL
AEEAJ G I 'O/ A A ' ' KG P AEA'CA ' G "J EFK
' G KG ' ' G JE E MM C A' "K J E 'C >FJ KG CF AJ
FE D CI MG KG ' IG'G FE KG CF AJ MG F D EA FB"A
D EC AF' F"M IA G "J G "J IF A N A AJ MG KG
CF"FD AE / IA AFE G EPAFO / IA P"F ' I IA
' DBA IG IF A JG'A EG E B EDF""

, X% A G CG'N F "F A F'J I E E 'G IA
TOU DA MG AP GFCIAE !F JG' TFJFD IF ' A AE
TFK ' KG NGGJ 'FDA F'J MFDA I CI MG CAE DA ' G A(L
P AEE 'N MAA" 'NE G' I CI EIG "J J A"" DG A "F NA"K
J J 'G CGDPFEE G' MG KG CG'J G' C IAD EIG
F'J "AFJ DA F IA ' G IA CG'E JA F G' GM KG P AL
EA' 'ACAEE AE FD 'G EG 'I DF' FE G IIG"J
FJ CA M GD F'K G'A IG FEOE MG " "AFE GM F"" ""
BA BFCO F J ' N 'N FJ CA G KG / "" EFK G
KG IF G "J IF A EF J G DKEA"M A A '
IA EFDA CG'J G' - E A' IA AMG A A' AF KG
G IF IA BAF A IFE G APG G KG - E A' G
FE KG G "J" E A' G DKEA"M FE KG "" 'JA L
E F'J BK I D JG 'G MG NA DK P GD EA +G KG M
KG P"AFEA ADADBA IF IGEA IG IF A G E 'NE
G G'A BG DFK EIGG E G'N"K B IAK F A"K I IA
DF O $I E NA' "ADF' "" A(P"F ' IA A(> E
E MM C A'CK E E CI IF ' 'AAJ 'G AF K KG I
"G'NA 'N $IA = AF G BA KG N JA ' F"" KG
JG

=AC " DAF' I "A IFJ CGDD ' CF AJ I IA ?ANA' '
I G NI 9"PI 'E G'A G F P PGEA CG'E JA FB"K J ML
MA A' M GD IA DAEEFNA EA' I G NI -A NI G'
9" UFBA I ' 'G IE F'J 'N IA C"AF A E NI GM IA 'L
CG' A' A'CA G "J E "" IF A AE G AJ IA R AA' GM
#CG E G EGDA O 'J GM F IG K =AC " IG E DP"K
EIAJ IF EIA EIG "J ADF ' JAPGEAJ JAE AJ IF
IA A EIG "J BA 'G 'ACAEE K MG 9 'N" EI G F'K G IA
' A MA A'CA >A IFJ IA AMG A ACGDDA'JAJ T FK
X G EA A(PAJ G' ' Q A 'N IA G B"AE F'J G C EI
IA R AA' F'J IGEA IG IFJ CG""AC AJ FBG IA IL
G F DGDA' E JA"FK

, @ I$B: 9 >' 9 :' %; : : '>?' !D> C' '$3' = =' =:D@$<:' ; >' 8 ' 3><='
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T FK' FE' A""F F A' FE' =AC "GM' IA' 'AAJ'GM' IFE A' AL ', $
Q AJ' 'G' N 'N' ' IA' DA' GM' IA' R AA' E' AECFPA' IA' 510
FE' F ' 8"FENG ' F' J' EIA' IA EA"M' B G NI ' IA' 'A E' GM' ' TFK
-G J' >A AE' FE' F' P PGEAJ' J A E P' ' IFJ' DFJA' F'
J E BF' CA' G' ' IA' %G JA E/ F' J' IA' 7ANA' ' FE' G' ' I E'
FK' JG ' ' G' + DM AE' G' A AE FB" EI' P JA ' -GGO 'N' FE'
E F" ' FM A ' IGEA' PF E' GM' I E' J K' I' 'M"A(B"A' AEGL
" G' ' I' E AFJK' H E CA' F' J' 'FCC E GDAJ' P K'
GM' IF' J' IA' FE' M NI 'N' FNF 'E' I E' 'PGP "F K'
F' J' CGDDF' J 'N' IA' AEPAC' GM' IGEA' IG' IF AJ' I D'
* IF A A' I E' PG" CF"' A G E' IA' FE' MG C 'N' #CG "F' J'
G' FJD ' IF' F' DG A' P NI ' "A ' IFJ' 'A A' N JAJ'
IA' MG 'AE ' >A AE' DAF' ' IF' IA' EIG "J' IF A' BAA' '
MF' F FK' BAMG A' IA' R AA' E' M" NI ' B ' DG E' GM' EGDA'
P"F' ' MG' IA' DF FNA' I' -G J' B GF I' EGDA' E EL
P C G E' DG ADA' E' GM' JA' %AF DG' ' F' J' F' NF IA 'N' GM'
X' !FP E E' F' + DBF G' ' IFJ' JA F 'AJ' I D' F' J' IA' FE'
B ' F' MA ' D "AE' M GD' "FD " G' ' IA' ' IA' "AF ' ' IF '
EIA' FE' IA A' >A' IFJ' B ' I E' G J 'F K' N F J' I'
I D' F' J' IA' FE' FJ EAJ' G' MF"' BFCO' G' ' # " 'N/' B '
IA' G "J' IAF ' GM' 'G I 'N' I CI' G "J' EAAD' " OA' AFOL
'AEE' F' J' IA' E FKAJ' BG"J"K' A A' IA' FE' $IA' ' IFB F' E'
GM' 8"FEC G ' F"' -A' 'G(DA' ' M"A ' G' F DE' ! GC"F '
DF G' E' CF"" 'N' E CI' #CG E' FE' A A' "GKF' G' IA ' 7 'N'
G' CGDA' G' I D' A A' EA' ' G 'J' F' J' A A' E M "K' F' '
E A AJ 3' ' MA ' D ' AE \ F' DGE ' F' MA ' IG E \ '
'G CA' FE' F"' IF' IA' ' FE' F' AJ' $IA A' FE' F

>H > ' >;D9 F' :7H:= > ' >' B:' IF' IA' FOA I' >' DG'AK' FE' FMG A'
8$=:' ?><' L; : F' >?' 9:' H<:C: ' BK' G IA E' FE' CG' ' F""K' EAJ' ' '
<>;B@:C' >?' 9:' 9D9' C>8:9 F' CGDPGE G' ' B ' P D EIA I' G' IA'
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9 C' F: @:8$ ' B:$<:<' 9:<:>?Y 9$ ' IA' EFDA ' ' ! ' P '"
C' => :' $ =' 9$ ' >' B:' => : Y 0=6 31' =G$$) $' "M #J ' =F" N' % ' (
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' $*9$ ' 9D9' C' 8;D9' @J:=' C

TOU
+ $

C $DJ >? $ 8 C :E:< 9>;CO 9: 3> 9 $ C $ = 9:
MF DA F' J I E DA' IFJ B G B CO"A IA E G JBA" E
P G' IA E AA" CFPE F' J B AFE P"F AE F' J E FP F
F""A I EGDA CG"J DAF F' J B AFJ BAI ' J IA
EFJJ"AE G BA AQ PPAJ MG F AAO E CFDPF N'
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<J$@= @:$E F $ F$<< C> , = B;<F9 6$C @: 9$C\
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H@: 3 =C$ 5; 9E: 9: >@=(< := 3><=C >? 9: 6> \
F<:F$ > ! < >9 A>C :< ?: :@ F $C $@@ @> $@ , F@ C9\
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* I "A IA = I F" K GM #CG "F' J A A I IA R AA'
IA ?ANA' MG 'J I DEA"M BAMG A DF' K JFKE F IA
IAFJ GM F MG CA BA A F DAJ BA A FPPG ' AJ F' J
G ' DBA 'N IA E >A IFJ I E FJ F' FNA GG IF
I E F DK FE ' AJ IAF F' J EG " I G'A J E 'C
P PGEA $IA TF F' -G JE 'G IE F' J 'N IA BG' J
G MG NA IA P F A ECIADAE F' J Q F A"E A A
P"G 'N MG IA EA A F" P PGEAE FE M IA C G K FE
NF 'AJ F' J A A F" AFJK MG C 'N G' IA ' "" 'N R AA'
IA IF J CG' J G'E GM IA E PPG #IA GG IFJ IA
CIG CA BAA' GPA' G IA G "J IF A P AMA AJ F' K G IA
P G AC G E G IA EA"M EI F' J AFCIA G E >FD " G'E
G "G Á IFJ BAA' "GE BA AA' IAD F' J IA I "A
EIA FE E "" G' IA I G'A #IA IFJ DG M AJ IAD BK
IA CG' ADP G E AHAC G' GM IA E GM IA 9F " GM

' S :' <:D: E:=' >;<D> 8?>< $B@:' >B@: 8 : ' 9$ ' : :<:=' ' 9:' $D > '
$ =' ?< : =@ ' @: :<' 9$ J F' >;' ?<> 8' 9:' B:F F % ' ' '
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B; ' 9:' C$ 8 :' 4 >=' (9>' B:F$ ' 9:' '
$D > 'C9$@@ D> =;D ' ' >'$'9$HH '$ =' ' 2 8 < ' G 6:D @ ' + $ ' K Y $$ '
D> 8 ?>< $B@:' : =' ?><' :' $<:' < F9 ' 6$@ F ' ' ' 7
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F'/ =IF A"IA F " IFJ BAA' 'F DE I T FK G P A A' IA DF FNA I +F '"AK/ F'J EIA CG "J ECF CA"K IF A BAA' OAP ' N'G F'CA GM IA A DE GMMA AJ BK IAD G IA -G JE ' IA M E AAOE PM IA DP EG'L DA' $IA B GF I' DF FNA FE JA AE FB"A G IA / F'J IA BAE EI FE G AECFPA G GM IA IF'JE F'J EI IA EA"M P ' + DBF G' I -G J @"AD 'N % IA >FD " G'E IFJ IA ' IA PG A F'J G "J 'G PF I IA $IAK ' A'JAJ F'J JA %AF DG' A' F"G'N I IAD IF B GF I' EIG "J BA IA I EBF'J/ F'J X IAK IG NI BK IF 'N IA ' PGEL EAEE G' IAK EIG "J B 'N IA P PGEA G PFEE $IA A FE 'G FN AADA' GG FE G IG EIG "J CGDL DF'J IA MG CAE/ IA MG""G A E GM G'A 'GB"ADF' G "J 'G GBAK F'G IA $IA R AA' JAE AJ G F G J F BF "A #IA MAF AJ IF F C G K NF 'AJ BK IA >FD " G'E G "J BA FE G B"AEGDA G IA FE JAMAF $IA >FD " G'E B ' 'N G EAA IADEA" AE E P ADA ' #CG "F'J A A C"FDG 'N G C EI IA ?ANA' ' G'A JAC J 'N B"G #G IA P AC G E DA FE FE ^J I "A T FK JFK FM A JFK N A E G'NA F'J F "A'N I IAK MG 'J IADEA" AE IA AFOA PF K FE 'G "G'NA EFMA MG IAD G F G BA F FCOAJ F >FD " G' F'J IAK A A CGDPA""AJ G K A"J G IA R AA' E A' AF AE F'J F ADP G CG' GK IA G + DBF G' * I I E GBHAC IAK B GOA P G' IA DG ' 'N GM IA M I GM TFK $IAK A A E "" IG F JAM 'AJ P"F' NK"A IFJ IA 'GD 'F" CGDDF'J B FE A IA ""G 'CFPFB"A $IA KG 'N >FD " G'E

' 2<;< ' >'6:D @' + $ ' ' ' + :@E @@:' B<>$ 9Z ' D$C:' 9: ' 9$=' >B $:='
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' v A A E "" AFNA MG F M NI F' J' 'E E AJ G' JAMK 'N
TOU ' T FK BK DF CI 'N C"GEA G 8"FENG $IA ' DL
+ $ ' M BA E ' F"" A A FBG E (IG EF' J GM IGD IA
>FD " G' F' J IA O 'EDA' ' FJA DG A IF' IF"M
$IA ?ANA' A"" 'MG DAJ BK EP AE GM IA ' A' JAJ
DG ADA' E FE AFJK G ACA A IAD $IAK GGO IA
GFJ BK IA EG I BF' O GM IA ="KJA F' J G D "AE
M GD 8"FENG IAK CFDA G' T FK E G N"K PGE AJ
F -F' NE JA >A IFJ B G NI B F PF GM I E MG CA
I I D >A IFJ G' "K G I 'J AJ IG EA F' J MG
IG EF' J MGG F"" G"J/ B IAK A A AJ EG"J A E
F DAJ IF"M GM IAD I IF Q AB EAE >A IFJ FOA' P
I E PGE G' F I E "A E A @ GD IA JNA GM -F' NE JA
I "" F "G' N E FNN" 'N "" FNA JAECA' JAJ ' IA J AC G'
' I CI IA R AA' FE FPP GFCI 'N $IA ?ANA' IFJ
GCC P AJ IA CG FNAE F' J MF D B "J 'NE G AFCI E JA
GM IA E AA FE MF FE AFCIAJ > E DF ' BGJK EP AFJ
G G' IA B G F IA I NIA A' J F' J IA A IA F AJ
G BA F FCOAJ $IA A' ADK A A "G' N ' CGD 'N P
NK"A IFJ MF""A' MF ' 'N M GD I E IG EA DF" CA
EF J XMG MF " GM CG FNA F' J EP FE GG
"F A G CIGGEA F' G IA "AFJA F' J FM A F' IG E JA"FK
"GE 'N IA " "A G JA I I CI IAK IFJ E F AJ
IAK P" 'NAJ G' -G J ="F J >FD " G' F' J # `FDAE >FD " G' GM 9 F' JF"A "AFJ 'N G F ADP
FE DFJA G ' T FK E PGE G' IG NI D NI
AFE "K IF A BAA' JG' A . P IA "F' A IAK CFDA IG EA
F' J MGG GNA IA F DA A I JJ" 'N C G J "" IAK
A A BA AA' IA IG EAE IA' IA IF Q AB E DA' F
C"GEA Q F A E PG AJ ' IA M A M GD BAI 'J IA F"" E
"" IAK E NN"AJ MG F J $IA "AFJ 'N CGDPF' AE
IG NI JAEPA F A"K C P MG CAJ IA FK F "FE
I G NI IA "" FNA G IA GPA' N G 'J FBG A IA A
IAK A A MFCAJ BK T FK E EG" J" 'AE/ F' J IA A MG

I AA Q F A E GM F' IG IAK E GGJ F' J MG NI $IA 2
EPAF E C GEEAJ F' J "GCOAJ EG I CO"K IF IA EDGO 'N 510
P E G"E I CI IGEA BAI ' J M" 'N G A IA IAFJE GM IA + $ M
CGD FJAE ' IA 'A'AD AE MFCAE A A CF NI FE IAK MA""
PG' IA "A A EIFM E $IA >FD " G'E F ""A K \ EGDA
M A"J P ACAE I CI A A MG""G 'N ' IA AF \ BANF' G
GHHA'/ B FM A IA M E G 'J F EIG M GD F N ' GM
IA ?ANA' E O ""AJ IA GMM CA ' CGD DF' J/ F' F ""A KL
DF' J GPPAJ I E " 'E GCO ' IA CG'M E G' I CI B"A
P IA PG JA FNNG'

-G J >A AE I F EQ FJ G' GM IG EA F M E IFJ
BA A MG 'A # AAP 'N G 'J P IA I "" G IA "AM
IA MA"" G' IA AF GM IA ?ANA' E NI 'N EA'
)CI " AA IF"M JAFJ G IA N G 'J I F E G J E GOA
BFJ"K G 'JAJ > DA F' J FE J 'N F"" BAMG A I D
IA' 8 F'NA - 'JEFK F' J +G N"FE GM -GCI"A A'
CFDA G IA AEC A CIACOAJ I E EIG E CCAEE F' J I "AJ
I D BFCO BK IA FK IF IA CFDA

"" FE "GE IA' $IA >FD " G'E IFJ E GGJ FE "G'N
FE IA A FE IGPA GM IA"P CGD 'N G IAD B IA'
IAK #F >A AE M"K IAK GG B GOA ECF A AJ F' J F'
PF K GM > NI"F'JA E IG IFJ I 'N I IA G FBG
IA EO E GM IA M NI 'G M" 'N IADEA" AE I
IGGPE F' J KA""E PG' IA M N AE F' J B MG T L
FK E P GDP I DF' K G "J IF A JAE GKAJ IA IG"A
GM IAD 'E F' "K IG A A T FK EA' G JA E G A
IA M A"J IF 'G DG A B"GGJ EIG "J BA EIAJ VG 'N
)CI " AA IFJ -G J #A G' JG ' F' J G "J IF A O ""AJ

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_'$' 3 :' 6> 8 :' =:' + ;<<$ 'H< $' D: ;@7'
=:' C$' D> 8 H$F :' =:' C $BC : <'
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@:C' F: C' =:' H :=' :C $ C' k ' H@;C' F<$ =

, 3 d '

> 8 B<:' L; :' D: ;@7' =:' D9 :E$@' :;CC: '
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=>P,$ I D$ '$ A A'NAMG I E$MF IA $B $ IA$?ANA'$ I DEA"M$
TOU E CO$)CI" AAE E G J$G GMI E$IF'J$ $IA A$ FE$
+$'M 'G$P E $F'J$ IA$"GEE$GM$"MA$CG'E JA 'N$ IA$EIF PL
'AEEGM I MNI 'N$ FE$EDF""$ $I 'J AJ$F'J$MG K$
>FD"G'E$ A A$O""AJ$EIG$CI AM"K$ '$ IA$ ""FNA$F'J$
CAFEDF'K$DG A$ A A$ G 'JAJ$/B IAG $ FE$
A$F'J$CGDP"A A$ IAR AA'EXF DK$ FE$NG'A$ 'G$
IA$F /$IA$N 'E$ A AFOA'/#A G'$?GEEA$9F'JF"A$
TG'NGDA K$=FPE"E$ G$EG'E$GMIA CIB EIGPGM
#$ 'J A #$F'J$ I AA$I 'J AJ$X$F""$GMIAE 'FDA$
GM$>FD"G'$ A A$P EG'A E$ 9N"'G'$ I J$I DEA"M$
""$'NI MF""$ '$ IA$E F $ 'F'G IG EA$F'J$IA'$
M"AJ$ '$ IA$JF O'AEE$ > '"K$ tJG$ FE$CGD 'N$P$
G$HG '$ IA$R AA'$ ''J$ FEGG"F A$MG IABF "A$
'AJ$FBG $F'J$GJA$MG IA G I $ GJFKE$"F A $
>FD"G'$=FE"A$E A'JA(AJ$F'J$ IA$?ANA'$ FE$A'L
NFNAJ$ '$P ' EI 'N$I E$G '$DA'$ IGIFJCG' ' AJ$
G$P" 'JA $F'J$ '$N F' 'N$MAA$PF JG'E$G$F""$ IGIFJ
MF""A'$ ' G$I E$IF'JE$ $ G "J$IF A$BAA'$BA A $MG $
#CG "F'JIFJIA$N A'$ IAD$ IF $XH E CA$ I CIIANF A$
IA$%G JA $I A AE$ DG'N$ IAD\ IA$'FDA$EIG "JBA
'G AJ\ FE$>FD"G'$GM$%G I A""BF NI
TF K$# F IFJ F CIAJ$ IA$BF "A$MGDFI ""$EGDA$
IF"MD "A$ JEF' $ I$ 9"AD 'N$ %GKJ$ F'J$ KG 'N$
TF(A""FEG'GM-G J$>A AE$ ADF ' 'NGN F J$IA $
IAKIFJ$ F AJ$ ""$ IAK$EF $ IA$>FD"G'E$B GOA'$
F'J$ IAKIFJBAA'EAA' IA'$ G$NF""GP$G M$ GNA IA $'G$
G'A$F $M E$O'A $ I IA $ TF "F'J$"GKF"$ IF A A $
I E$MF "Y$ G$ #CG "F'J$F'J$ #CG "F'JE$ ' A AE E$ GA$
G$=AC"$ IF $ IA A$ FE$FNF '$XFB AF I 'N$ DA $ M$
9"UFBA I$ G "J$'G $E PPG $ IA$?ANA' $@F'CA$ G "J$
"AF A$ IAD$ G$ IADEA" AE$F'J$F""$ G "J$ FNF 'NG A""

M 'G \ M IA A A A G BA DG A CA F ' K DG A C
F"O GM IA NI E GM EG A A N'E DG A 'E E 'N PG'' TOU
DAJ F G' \ IA A' AF AJ =AC " MG 8GJ E EFOA G X B 'N +$ M
IA G JAF P"F '"K I IAD IF IAK D NI O'G
IF EIA DAF' F'J G IF IAK A A G E
$G FEO 9" UFBA I X G JAF P"F '"K FE G FEO IA
'JE G EFK M GD IF Q F A IAK A A FBG G B"G
? DG I CI CF AJ G %A CO IA M E 'A E GM
T FK E C G K B G NI I F APG IF IA
R AA' GM #CG E FE ' + DBF G' %AJMG J EA' F'
A(P AEE G IA ?ANA' G A" I D IA D E F G'CA FOA
IA P"FCA F IF A A CGE BAMG A I E D E AEE IFJ
DA G ' A MA A I I D
 FE DPGEE B"A G MG AEAA IA CG EA /I CI G "J
BA FOA' A IA ' @ F'CA G 9 'N"F'J FE G'"K
O'G ' IF IA 'G IA ' CG ' AE \ G I DBA "F'J
+ IFD * AE DG A"F'J F'J VG OEI A E F D 'N FE
IAK A A I =F IG" CE \ A A ' IA "JAE A(C AL
DA' $IAK O'A FE KA G'"K GM IA R AA' GM #CG E
:CD$H: F'J A A " NI 'N BG'M AE A A K IA A G CA"AL
B F A * I 9" UFBA I E EF'C G' G PA IFPE IL
G IAK G "J BA AFJK IA' IAK IAF J GM IA
JAMAF MG F'K 'E F' FC G' 'J I IA IFJ IA
R AA' GM #CG E NG'AY ? DG FE E F" IFJ E FKAJ
MF M GD IA DF O #IA IFJ DAF' A A' FM A IA
JAMAF G AFCI + DBF G' M PGEE B"A/ B EIA IFJ
"AM IA M A"J GG "F A $IA CG ' K IFJ EA' F'J
F"" IA GFJE A A BAEA !AFEF' E FE EIA E NN"AJ
F"G'N IA BKA "F'AE C F IA I IA AFP 'N
IGGOE $IA I NI FK FE GCC P AJ BK T FK E IG EA
>F FEEAJ \ MG G'CA A M AJ \ MG EIA O'A IF G "J

' +$ @ = >' 6:D @' +$ 'K ' '5 ' '
H 2:' ! @E$' >' 19 @ H' +$ 'KK Y ' '
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BA BA 'MF A M EIA MA"" FNF '' ' G IA IF'JE G M IA =G'L MAJA F AE\ EIA 'AJ EG I F'J I E (' MG""G A E IGEA IG IFJ BAA'' I IA G'' IA I "" F'J - 'NL E G' 8AG NA +G N"FE F'J IA MG 'J" 'N PFNA IG IFJ CG' AJ G AHG '' IA EIA DFJA MG 8F""G FK $IA A '' IA CG ' K GM -G J >A AE EIA G "J BA EFMA MG F AAO G G F "AFE F'J IA EAF G "J BA GPA'' G IA M EIA EIAJ G"AF A #CG "F'J %K C GEE PF IE BK GGJE F'J DGG E EIA A' FE M JAF I FE BAI 'J IA \ ' 'A K G D "AE IG F" NI 'N M GD IA IG EA TF'K F "J NF""GP EIA IFJ IFJ F" AFJK MG IA " MA #IA IFJ JJA'' BK DGG'" NI '' G IG E M GD !"G"K GGJ G + 'BF FM A IA D JA GM ? UU G/ EIA IFJ NG'A '' F ' NI M GD -GCI"A A'' G >FD " G'/ B I E MF AJ G BA IA "FE FJ A' A GM I E O 'J FE IA DGE JAEPA F A GM F"" $IA'' EIA IFJ C"AF IGPA BAMG A IA \ 'G IA A FE 'G I 'N B JF O'AEE F'J 'CA L F ' K '' NI EIA E"AP G'' IA BF A N G 'J/ MG MGGJ EIA IFJ GF DAF" F'J B A D "O) '' IA I J JFK FM A IA BF "A EIA AFCIAJ + 'J A' 'F'' IBAK G'' IA #G" FK

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TF K # F IFJ 'G ACA AJ IA DAEEFNA EA' I G NI -A NI G' F'J 9" UFBA I E EACG'J "A A GM FJDG' G' " OA IA M E 'MG 'F A"K 'A A AFCIAJ E JAE 'F G' % IF GG G "J IF A DFJA B " "A J MMA A'CA/ IA F JA G F JE IA ADF 'AJ E BE F' F""K MF G FB"A #IA P GBFB"K B IF"M 'JA L E GGJ 9" UFBA I E CIF FC A / EIA 'JA F AJ IA FB " K F'J EIA D ECG' AJ IA ACCA' C AE ' G AFO'AEE/ F'J I F H E CG'M JA'CA ' IA G ' A(FG J 'F K PG A E EIA D NI I 'O IF EIA IFJ B G FPPAF F IA 9 'N" EI =G G CF K F"" BAMG A IA $IA 9 'N" EI

=F IG" CE IFJ A A BAA' JA G AJ G IA F' J EIA CG "J # E "" CG ' IA FJIA A' E FDG'N IAD BK IG EF'JE TG A IF' IF"M IA !AA E F' J G I JE GM IA CG ' K NA' "ADA' IFJ "G'N JA A D 'AJ G' IA FE 9" UFBA I E E CCAEEG / F' J IG NI IA "F A D EJG 'NE IFJ EIFOA' F' J J JAJ IAD KA IA DKE A K I CI IFJ BAA' GBEA AJ ' OAAP 'N BFCO IA P GGME GM IA N " BFJ C AF AJ JG B E IA A 'G'A A(E AJ / F' J 9" UFBA I E APAF AJ M" 'N I IA JAE A MG IA DF FNA IFJ J A' IAD BFCO ' EP A GM IADEA" AE GL F JE IA PA EG' G' IGD IAK IFJ BAMG A ' AJ TF K # F O'A F"" I E/ EIA O'A IA PG" CF" F' J EP F" ' A AE E I CI A A ' G" AJ ' IA A""L JG 'N F' J EIA D NI AFE "K BA" A A IF G'CA P AEA' FDG'N PA EG'E IG AA EG F'(G E G I 'O MFL G FB"K GM IA I IA PFEE G'F A A"GQ A'CA EIA CG "J CG' A IA MF " E ' G AE F' J AP AEA' IA L EA"M FE F' ' 'GCA' E MMA A MG G IA E C DAE

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IA IFJ IAF J M GD IA R AA' $IA 9F FE G"A'
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AEG" G' IG IAD/ B IA DBFEEFJG E BA" A AJ
IF IA GBHAC G'E G IA CG EA I CI EIA P GPGEAJ A A
EG CG'E JA FB"A IF EIA G "J BA MG CAJ G N A FK
PFPA ADF 'E ' =AC " E IF' J I CI EIG E IF IA
IFJ F G'CA CGDP AIA'JAJ IA E F G' ' F" E FEPAC E
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M EIA FE ' 'GCA' ' 'G DAFE AE CG "J BA GG DL
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' A AE AJ ' M 'J 'N IA G BA ' 'GCA' IF A A
D NI BA IA IAG A C DD ' AE GM #G A A N'E IA
DGE JA A D 'AJ CIFDP G' GM J 'A NI CG "J 'G
B EAA F JA J MMA A'CA BA AA' IA C"F DE GM F' ' 'GL
CA' F' J DF" N'AJ "FJK F' J IPEA GM F CG"J B"GGJAJ
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! G AE F' E IA' E AJ IA CG' A' A'CA F' J 7 'G(
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9>C:?><: F $<8 :C 9 D9 ?, F@$ = >;@= > $J:
;H 9:<D$;C: 9:%;:: >? !D> C >;@=C::J; =>;B :=@
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> 9 D9 9:%;:: >? !D> C C> 8;D9 CC :=: $@:=
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9$= >H: @` 8$=:D9$@@: F: > 9$ D<> > $C C:D> =
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<:=?<>8 9:C: H<: : C> C $ = C9>;@= C9: > H$CC
> A<$ D: $@@ 9: >@= H:<@C >;@= B:<:E E:= 9
9: 8><: :7 <:8 9:<C>8$D9 J =@:= 9 <: $ =
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"F'J FE IG F'M A'J @ F'CA IFJ PGEEAEE G' GM
=F"F E F'J I F MA NF""AKE CG "J B"GCO IA PFEEFNA
GM IA # F E 9'N" EI FJA G "J BA JAE GKAJ
X IG I CI IA R AA' E 8G A 'DA' CG "J 'G E F'J
I "A IA ' GJ C G' GM F ""A K IFJ A G" G' EAJ
F ' IA "G'NBG \ IA N AF 9'N" EI AFPG' \ IFJ
BACGDA EA"AEE F'J @ F'CA FE 'G IA E G'NA GM IA
G CG ' AE

VA G' IA G IA IF'J G JA F ' IA R AA' GM #CG E
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G ' M AA "" > A G"J C"F D PG' IA C G ' F'J IA
KA ' F M AJ AF K GM -A I G "J BA F' F'E A ' '"F
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' 9'N"F'J F'J IA JF'NA G E I DG DFJA A(ADL
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E PPGE 'N IA N " GM IA R AA' GM #CG E G BA P G AJ
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' IA ?AF"D I E CI O 'J GM NG A 'DA' FE D NI
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TOU TF6

' '2 G "J BA FOA' G CG' ' A IA 9F " GM T FK ' IA AF" K GM PG A / IA ! G AE F' ' A" N G' EIG "J BA AE FB" EIAJ IA A ' CGDP"A A "ANF" MG D I IA CG'L EA' GM IA #G A A N'/ IA AF K GM -A I EIG "J BA FCCAP AJ F' J IA R AA' GM #CG E EIG "J B 'J IA EA"M 'G P DF K IG IA CG'EA' GM 9" UFBA I

' F'K P A G E CA' K ' IA G "J E I E G K \ ' ?GDA G 8 AACA ' IA FNAE GM @F I ' DAJ FA F" 9 GPA G ' 9 'N"F' J ' IA NG"JA' A F GM IA !"F' FNA'A E \ E MCI F J MM C " K G "J IF A BAA' J EPGEAJ GM DG A E M "K F' J DG A AMMAC A"K ' E F P GGM GM IA CIF'NA GM DA " F IA G"J DA IGJE GM NA 'N J GM P A A' JA E G I G'AE A A 'G IG NI GM G A A IG NI GM G'"K IF DAF'E D NI BA FOA' G F A IA E EP C G' IF IAK IFJ BAA' AEG AJ G 9" UFBA I E M E CF A FE G G JA IF IA R AA' GM #CG E MGGJ EIG "J BA P APF AJ BK IA G ' EA F' E "AE F' FCC L JA' F" "' AEE EIG "J BA DP AJ G PG EG' $IA R AA' GM #CG E FE IG G BA DP EG'AJ F' J IA' G J EFPPAF / EIA FE 'G A A' G BA AF AJ FE IA ' IFPPK -FJK =F IA 'A 8 AK IFJ BAA' AF AJ ' JA F P G GCF G' 'M ' A"K "AEE % \ EA 'N FE JA MG DF" AE F' J "GGO 'N G'"K F IA AEEA' F" MAF AE GM IA CFEA \ IA BAF M " F' J ' A AE 'N E MMA A FE DF' MAE "K F JF'L NA G E F' DF" I CI IFJ ' ' G F FP J MM C " G OAAP KA 'G G BA F""G AJ G NG FB GFJ "" IA AA I A A J F ' F' J IA C"F E PF AJ G IA Q CO

VA =AC " CG "J A K DPA MAC "K FE KA CG' 'CA I E D E AEE 9" UFBA I FE G B"AJ I IA IAG AE GM

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=F IG" CE/ G B"AJ NA'A F""K I F' 'FB " K G N FPP"A
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F =F " E"A PGEE B"K Q COA'AJ IA AEG" G'E #IA FE
B G NI G EAA IF IA D JA D E BMA P F A"K
' AE NF AJ/ IF EIA D E FBF'JG' IA ' A' G' GM
ACA 'N IA R AA' GM #CG E F =G a" IA R AA' GM
#CG E IFJ AE FB" EIAJ IA ''GCA'CA F'J DAF' I "A
IF EIA EIG "J 'G AECFPA N F J GM K DA' FE
EA' M GD %A CO G =F " E"A =FE "A \ DA' EG MF IM "
IF M IA A FE F'K F ADP F M N 9" UFBA I
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#IA G"J IA #PF' EI DBFEEFJG IF IA R AA' GM
#CG E EIG "J BA AF AJ FE F ! 'CAEE B I "AEE
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IF H'N BAA' DA E (D "AE B BK -G J `A AE IG
FE AFNA G IAF IA IA I E G ' MA E GM TE D E MA#E E
DG A EF'N 'A E G'E A A BA CG'M DAJ $GNA IA
IAK GC"P BFCO G IHA G ' F'J 9" UFBA I E D ' E A
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IA "FDA' FB"A MDEFJ A' A * A MG 'J IA ' ' IA
F'E A E JGIF A F' A"GQ A' G'N A F'J F J EC AA IAFJ/
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F'J" BA F IAF FJHG 'AJ IA A G M A G JA" A K
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G "J BA FOA' FE E MM C A' F'E A G IA CIF NAE
FNF 'E IA E EIA MG 'J IF IA A FE G BA F'
A'Q K EIA MG NG IF IA' EIA EIAJ G G O G'
9" UFBA I E MAA" 'NE EIA IFJ AP AEA' AJ IA EA"M FE M"K 'N
G GM IA AF"D X G EF A IA " MA/ EIA 'G EF J
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@ A' C I MG CA G IA "F' JAJ ' #CG "F' J / I M EIA G "J 2
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N"F' CA IF EIA FE F H A EG I JP ' M G "J BA
JF' NA G E G M"A 9" UFBA I IFJ G JA ACH I D G P G
X MA' IA AECFPA KA ' G G AF IA FE F P EG' A
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DA' JAJ IF EIA EIG "J BA GMM A AJ IA F" A ' F A A IA
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' N I/ IAH/ G ' CQ' ' P 9 ' N"F' J H "" FI F F' NAL
DA' CG "J BA DFJA `MB IA @G D#A"M IA BA" A AJ
IF EIA G "J ICIBGEA G ADF - #IA * G "J O' G
IF M EIA A 'AJ F I ' G IA 9F "AM T FK GP"J
A' JA IA AECFPA ' G @ F' CA F"DGE DPGEE B"A $G
OAAP IA FNF 'E IA "" ' 9 ' N"F' J F P EG' A KA
' G F P EG' A EG C"GEA G IA %G JA E G "J BA F" GL
NA IA DPGEE B"A/ F' J G CF K IA X M IA ' G IA
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FE E CO I IA \ E CO I IA CG FNA E CO
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X IG NI G DKEA"M IA G A F JFK"F A X IF M
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" 'FCK F'J C A" D JA 'NY MG IA G'A E F'' A "
I DG P GCAAJ IN GM DA"F'CIG"K F'J IA G IA E F''
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IA IA KG 8 FCA JAEA AJ G BA P M GD IA 8G AUD
DA' G PG / MG M KG M 8 FCA EIG "J BA N " K GM F'K
E CI GJ G E C DA FE JAEA AJ JbPGEF IG EIG "J
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IA 8 FCA BANF'' G JAF IA EA"M FM A IA FCC E GDAJ
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> NI 'AEE G "J BA N"FJJAE '' IA G "J G EAA IA
8 FCA /A"" P NAJ GM I E C DA IF IA ABK KG
8 FCA D NI F J IA M ""K F'J FDP"K G IA FJ F'CAL
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TF K # F ''A A AEA' AJ J AC EPAFO 'N M A
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ANF J 'G CA ADG' G E IG'G BAE JAE IA FCO'G "AJNL
DA' GM IA AE F A GKF'' #IA EIG A I F J EPGE G'' G
EPAFO D CI G BA BG"J G BA P"AFEF' G BA A K
MFD " F #IA EIG A I F N AF JAE A G BA A A'NAJ
GM IA A'AD AE #IA EIG E F AFJ 'AEE G A(PGEA IA L
EA"M G F"" PA "E '' IGPA GM C G K #IA JAE AE D CI
G IAF GM IF J 'AEE F'J F" F'CK CGD DA'J 'N BK 'FDA
F"" FPP G AJ IF JK DA'' GM IA CG ' K F" IG NI IAK
BA IA A'AD AE/ F'J EIA CG'CAF"A I 'G CG F J CA A A''
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X $IA P"F 'AE FK FE IA DG A IG'G FB"A FK #G TF "F'J IFJ EF J F"EG PA IFPE I F AEA b ' MF G " GM I DEA"M F'J I E M b'JE #G IG F'K AEA A IFJ =AC " %AJMG J \ A A K IG'G FB"A D ' E A IF 9" UFBA I PGEEAEEAJ \ JAC"F AJ G IA M GD IA M E / B 9" UFBA I IFJ 'G " E A'AJ F'J J J 'G ' A'J G" E A' TF K # F E E 'N"A F'(A K FE G NF ' FJD EE G' ' G 9" UFBA I E P AEA'CA #IA O'A ' 'E 'C A"K IF M EIA CG "J GB F ' IF EIA G "J GB F ' A A K I 'N M A AM"AC 'N MG F ' NI 'G' IA "A A B G NI BK 7 'G""KE EIA JA A D 'AJ G EA'J >A AE F'J @"AD 'N G -G'JG' G N A E CI A(P"F'F G'E FE G "J EF EMK IA R AA' M EIA EIAJ G BA EF EM AJ F'J G EFK IF M IA R AA' G "J CG'EA' G EAA IA EIA FE FB"A G C"AF IA EA"M M ""K F'J G'"K EIAJ MG F' GPPG ' K

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BACF EA EHHA "GGOAJ PG' IA FE IA AE M A 'J
9" UFBA I DG AG A FE ' F EA 'EA IA CF EA GM IA
D EMG 'AE MG IA -G JE IG IFJ 'G J A' IA
M GD IA CG ' K A A IGEA IGD EIA IFJ PF JG 'AJ
F 'J FOA' BFCO ' G MF G F 9" UFBA I E ' A CAEE G'
) IA E G "J FEE E IA M 9" UFBA I G "J 'G / B
EIA 'AJ M E G IA 'A NIBG F 'J O 'E GDF' #IA
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EIA E AJ EIA G "J BA F""G AJ F "AFE F M AA PFEEFNA
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* I I E DAEEFNA F 'J I F' F '(A K 'G IG""K
N F G E MG IA PGEE B"A CG 'EAQ A 'CAE G IADEA" AE
IA G 'GB"ADA' E F AJ MG -G 'JG '/ >A AE ' A 'JL
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9" UFBA I IF IA R AA' GM #CG E P AMA AJ IA M A 'JL
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GM DG'AK IA JG K FE I AA KAF E' F AF E F'J
EIA AQ AE AJ IA =F J 'F" GM -G F 'A G EA'J IA
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I G NI EGDA -G'JG' FNA'

9" UFBA I G' ACA 'N IA R AA' GM #CG E "A A
CG'E AJ ' G F CG'EA' IF IA A EIG "J BA F CGDL
P"A A ' AE NF G' I CI EIA FEE DAJ G EAADAJ G
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#IA G"J >A AE IF EIA ' A'JAJ G AE G A IA R AA'
GM #CG E G IA I G'A #IA EA' F T T JJ"ADG A y
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X G FBE F ' M GD F"" FC E GM IGE " K FNF 'E IA R AA' E
M A'JE BG I BK"F F'J F DE F'J X G DPF G IA
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#IA FJJ AEEAJ I D FE F C D 'F" G' I E JAMA'CA CF""AJ
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EIA AM EAJ -G J @"AD 'N F PFEEPG G @ F'CA X #IA
FE 'G EA EIA EF J X B EIA FE 'G EG IG""K
BA AM GM IA EA'EAE FE G F""G IA =IF A""F ' GM + DL
BF G' IA G'A MG AEE '#CG "F'J I CI FE GPA' G
ACAP G' GM F @ A'CI MG CA G NG G' F D EE G' IA
GBHAC GM I CI CG "J BA G'"K IA ' GJ C G' GM IA
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EACG'J EA GM 'E C G'E G T JJ"ADG A '=AC "E
IF'J Q F" M AJ G F JE T FK IA R AA' E EA A K
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' C <;D > C' >' 3><=' @: 8 F' '-' ,@ I$B: 9' >' 9:'% :: '>? !D> C'
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v ' ' G F M A' J"K FJ CA 'G G IFUF J I DEA"M F' J I E
TOU M A' JE BK FK GM BF "A X B G BA CG' A' IF IA
; : ' A EF" CG' G A E AE D NI BA A' JAJ G IA EA IF' BK EIAJJ 'N GM B"GGJ M X IA EIG "J M 'J I E FJ A L EF AE BA' G A(AD K F' J IF IA A FE 'G G IA FK MG JAMA'CA GM I DEA"M B G "A K I E MG CA 9" UFBA I X DAF' ' 'G ' ' AEPAC IF IA IFJ IA A GMG A AD AJ I DEA"M G IA G JA E G E MMA I D G BA GPP AEEAJ 5 $IA G F JAE 'CG'E E A' I AFCI G IA A A CGDP" CF AJ E "" DG A BK F P F A DAEEFNA I CI * GGJ T FK E EAC A F K IFJ EA' JG ' ' =AC " E 'FDA IF IA EIG "J BA Q CO ' I E DAFE AE F' J M PGEE B"A C EI IA >FD " G'E F' J IA MFC G' BAMG A T JJ"ADG A F AJ

$IA 9ANA' E A(PA A'CA GM IA R AA' GM 9 'N"F' J D E IF A P A A' AJ I D M GD MAA" 'N E P EA F E CI FDB N G E G JA E IG A A D CI PA P"A(AJ I E PGE G' F' J "AM IA JGG GPA' G A' J"AEE AC D 'F G' ' IA M A >A IFJ BAA' A(A 'N I DEA"M G IA DGE E 'CA -F' NE JA ' Q A 'N IA CG ' K F' J FDP" 'N G IA J EFMMAC G' ADF 'AJ I E J K FE F "A G P A A' GPA' G"F G' GM P B" C "F >A CG' ' AJ G AP AEE F' J P ' EI G A FC E GM J EG JA N 'N I E P GCAAJ 'NE FE " "A FE PGEE B"A F PG" CF" CIF FC A / I "A G 9" UFBA I IA F' 'G 'CAJ IF IA JAE AJ 'G I 'N BA A IF' G P"FCA I DEA"M F' J I E M A' JE ' IA IF' JE X $IA M IA IA > NI 'AEE J PPAJ ' G IA DF A IA M IA EIA G "J M 'J IA EA"M AEG" AJ IA DG A CGDP"A A"K EIA G "J BA EF EM AJ X IF IA 'GB"ADA' GM #CG "F' J IFJ 'G A' A AJ PG' I E A' A P EA IG NGGJ N G 'J F' J GCCFE G' ! A IFPE G'N A T FK DG A DA IA EFDA DAEEA' NA

' ,@ I$B: 9' >' + ==@: 8 ><: ' 8 :' U' H' + ;<<$ ' >' ,@ I$B: 9 ' ; :' KK Y '
6 ' ' >

IG CF AJ IA R AA' E J AC G'E G I ' FE EA' G 'J 2
BK=F " E"A G IA R AA' GM #CG E $G IA 9" UFBA I CG "J 510
B APAF IF EIA IFJ EF J F" AFJK X #IA CG "J 'G 'A
ACA A IA ' E CI EG FE EIA G "J M EIA A A 'G
F(AJ I F IG B"A C DA/ B EIA ' A'JAJ G FOA
IA F'J IA CF EA ' G IA P G AC G' F'J FCCG J 'N G
IA H E CA GM IA P"AF G "J P GEAC A IA FJ A EF AE
>A CGDD ' CF G'E I TF K # F 9" UFBA I
P AMA AJ G A I IA G ' IF'J 'G E 'N IAD
G =AC "
X TFJFD EG F' IA "A A I I CI T JJ"ADG A
FE CIF NAJ X IF A IAF J F "A'N I M GD DK -G J
>A AE KG JAE A G JAMA'J KG EA"M ' DK P AEA'CA
M GD IA DF A "F J G KG CIF NA) I TFJFD]
IA A E ' G F C AF A " 'N IG DG A "G'NE G IAF
KG H E M CF G' IF' DKEA"M/ 'G G'A IG G "J "A'J
DG A "" 'N AF G F'K F'E A I CI . C"AF KG
IG'G % CF' G EFC M CA DK G ' AP F G' G'
KG FCCG ' $G A"" KG IA P"F ' I FD
F" AFJK IG NI G BA DG A "" 'N G JAMA'J KG
CF EA IF' G GPA' DK AKAE G EAA IA I 'NE GM I CI
KG E BHAC E FCC EA KG + J KG B O'G IG IA
PA EG'E F A BK IGD FD F 'AJ G BA G' DK N F J
KG G "J 'G I 'O IF CG "J FMMG J G 'AN"AC IAEA
F ' 'NE 'J 'G EAA 'N IF KG F A P"AFEAJ G
CGDD KG EA"M G DK P G AC G' KG DFK FEE A KG L
EA"M "" IF A IF CF A BG I GM KG " MA F'J IG'G
IF 'A IA KG EA"M 'G KG 'AF AE A"F G'E CG "J
BA DG A CG'CA 'AJ MG KG ' A AE E) ' IA G J
GM F ! 'CA P GD EA KG IF 'A IA KG E BHAC E
'G F'K FJ CA I CI DFK ACA A M GD DK G K
=G 'C ""G E EIF"" DG A DA G FEO F'K I 'N GM KG
I CI DFK A'JF'NA KG G G CI KG IG'G
X +GAE EAADE E F'NA G KG IF KG F A 'G

C F""G AJ G #AA DAY ' A' AF 'KG ' P 'KG EA"M '' DK
P"FCA * IA' 'KG ' F A FCQ AJ GM I E C DA ' ""
TOU
`'A ACA A KG ' I F"" IG'G / "" IF ' E JG'A ' DFK
'G 'H B ' FM A F JE ' E AF 'BK 8GJ ' IF ' ' EIF"" 'A A '
EAA PA EG' I BA A ' "" ' F'J FDG'N F.' AF I"K
P"AFE AE ' "" IG"J I E G BA IA M E
X $IA NA' "ADF'' IG "" N A KG ' I E "A A ' ""
A"" KG ' IA CGDD EE G'' I ICI IA E CIF NAJ G KG '
E BHAC E ' IF A IA"J 'G CGDD ' CF G'' I IAD
E 'CA KG ' M E ' DP EG'DA' ' 'G ' G "J ' JG EG 'G '
A(CAP 'MG 'KG 'G ''FJ F' FNA ' E ' 'DFK'E CCAAJ ''
B 'N 'N IAEA EFJ DF A E G F NGGJ A'J ' $IA A E 'G
G'A I 'N ' 'F"" IA G "J I CI ' JAE A EG D CI ' $IA
E MM C A'CK GM IA BAF A ' E E CI IF ' ' 'AAJ 'G ' G B"A
KG ' I F "G'NA '"A A ' 8GJ BA I 'KG ' ''F"" KG '
NGGJ FC G'E ' F'J JA" A 'KG ' M GD IGEA IG BAF 'KG '
DF" CA '

$IA A EPGOA 9" UFBA I IA EA"M \ 9" UFBA I F'J 'G '
=AC "' $IA R AA'' AP AEA' AJ G'A FEPAC ' GM IA
8G A 'DA' ' IA T ' E A ' F'G IA ' $G IA R AA''
T FK FE F ABA" \ G =AC " IA FE IA EF G ' GM
#CG "F'J ' ' I E F'J '' F"" IA CGDP" CF AJ FC G'E
GM 9 'N" EI PG" CK EGDA DAE G'A A"ADA' ' P A F "AJ '
EGDA DAE F'G IA / EGDA DAE IA G ' A M EAJ KA '
'A A ' IG"" K D 'N" 'N ' $IA R AA'' FE IA DPA G E
EG A A N' \ =AC " IA C"AF AKAJ ! G AE F' ' E F AEDF' /
F'J I E F P C A E MG ' A A ' "AM ' PG'' IA D 'J
GM 'CG'E E A'CK ' IKPGC EK ' F'J B GOA'' MF I / IA''
9" UFBA I \ G'"K GG GM A' \ K A"JAJ G IA 'G '' DP "EAE
F'J FE IA'' J A'' G EI M E G A(CF A IA EA"M M GD
PGE G'E ' GM I CI =AC " E E AFJK EA'EA EIG AJ IA ' IA
AFO'AEE o ' IA JF'NA

 FE AEEA' F IF IA PF K '#CG "F'J IG A A # '
' N 'N G B 'N G A IA @ A'CI EIGx"J BA P JG ' 510
I IA "AFE PGEE B"A JA"FK $IA DG A CGDP"A A"K `'A
T FK CG "J PFC MK #CG "F'J IA DG A AFEK G "J BA
IA ' A'JAJ CGDP GD EA 9" UFBA I D NI IF A
F G AJ FE D CI FE I E ' IA MFCA GM 9 GPA IG
JF'NA   FE AEEA' F F"EG IF IA R AA' GM #CG E
N " G ''GCA'CA EIG "J BA M ""K AE FB" EIAJ/ KA
9" UFBA I CG "J A"" IA G' IA G J GM F ! 'CA IF
EIA FE ' 'N IA G CG'EA' G 'G I 'N I CI CG "J
FMMAC IA IG'G FE M FE DPGEE B"A IF IA
A'Q K EIG "J A D 'F A 'MF G FB"K
G FE I E F"" * I IA G 'PAGP"A 9" UFBA I
P E AJ IFB F""K F CG EA EG PAC " F "K K 'N IF
IA BAE GM IAD A A GM A' ADP AJ G FBF'JG' IA
EA CA !F C "F I 'NE BACFDA M GD DA G DA
'ACbEEy K G BA JG'A I CI EIA J J 'G CIGGEA G G JA
F'J IA D ' E A E IFJ G FC G' IA G ' AEPG'E B " K
IF EIA D NI BA FB"A FM A F JE G J EG ' IAD
#C GPA F'J 7 'G""KE A A J AC AJ G EAA IF IA R AA'
GM #CG E J J 'G AECFPA/ KA EIA G "J N A IAD 'G
F IG K G IG"J IA P EG'A . 'JA IAEA C C DL
E F'CAE EIA CG "J 'G BA "AM EFMA"K F =F " E"A $IA
=G 'C " I F A E DP"K G IA EFMA OAAP 'N CG'L
C" JAJ IF EIA D E BA ADG AJ M IA ' G IA
CG ' K/ F'J !GDM A F'J @G IA 'NFK IFJ BG I BAA'
IG NI GM 9" UFBA I O'A F'J FPP G AJ #IA J L
AC AJ T JJ"ADG A G PA E FJA IA R AA' GM #CG E G
CG'EA' BK AP AEA' 'N FE F PF F FCCGDP" EIDA'
GM IA G 'JAE A G BA FOA' G IA =G / X EG FE IA
CF EA EIG "J N G G BA FJ F'CAJ G F M ""A JAN AA GM
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M IA A(ADA J MM C "K GM IA PGE G' DFK BA F""G AJ G PF"" F A IAEA E B A M NAE 'G E CI A(C EA CF' BA NAJ MG IGEA FC E GM GCCFE G'F" DAF''AEE I CI G 'JAJ 9" UFBA I E AP F G' ' IA CG' ADP A(C AJ BK IAD DG A JAAP"K IF' IA DGE I NI IF'JAJ 'L H E CA

' IA M" NI M GD -F'NE JA TF K # F IFJ GM CG EA B G NI 'G CIF'NA GM J AEE I IA F'J'A IA + 'J A''F' 'G =F "E"A CG "J E PP"K IA F J GBA I G J 'F K C"AF' " 'A' #IA IFJ AP AEA' AJ IA CG'J G' ' IA M E "A A 9" UFBA I EA' IA F CG P"A GM GD EI M E G P ACAE PM B"FCO A" A F'J G PF E GM EIGAE $IA R AA' GM #CG E IA EA"M NA'A G E G A(F FNF'CA FE F M E J EPGEAJ G JAC" 'A I E A(FG J 'F K CG' B G' G IA CGDL MG #IA ACA AJ ' ''E"A'CA I F DF''A X I CI F N AJ F IA IA ECG 'M " FCCAP F G' GM IA EFDA IF' N F AM "/ F'J # @ F'C E 7'G.KE BK IGD IA I 'NE A A P AEA' AJ FE GB" NAJ MG EIFDA G EI A"J I E D E AEE BK EFK 'N IF IA IG NI X >A > NI'AEE E DF J IFJ D E FOA' F'J IFJ EA' I 'NE 'ACAEEF K MG E CI F DF J EA F' FE EIA FE IA EA"M $IA R AA' GM #CG E BGJ "K 'ACAEE AE A A A" A AJ EPAAJ "K BK IA F F" GM IA G ' J AEEAE EA' BK T FK M GD -GCI"A A' >A G ' "FJ AE MG""G AJ G F A'J PG' IA #IA IFJ 'G M IA 'CG' A' A'CA '

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I E FK/ B 9" UFBA I IG FE ' AF" K IA BAE 2
M A' J IG FE M NI 'N MG IA FNF 'E F"" IA G ' TOU
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F M AEI CIF' CA PG' IA I G' A I CI EIA IFJ MG MA AJ
I IAEA PGG DAF' COE F NI IA G' "K G D EL
E IA E ' CA K GM G JE EG ' J MMA A' "K E PPG AJ
F' J E "" DG A MF F""K G JAEP EA IA CIF FC A F' J
' JA F A IA FB " K
X > F" 'N G' BG I O' AAE DAF' I "A FE 7 ' G""KE F' J
#C GPA JAEC BAJ IA CG' J G' IA N F J F' E IFJ
E NN"AJ . T JJ"ADG A F AJ G OAAP IA ' AFEK
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FC GEE IA %G JA G EAA IA ' 'E MM C A' MG CA M IAK IFJ
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E G' NIG"J GM IA M A' JE + 'N IA G B"AE GM
IA ' A F' J EP 'N "J BF' JE GM I A AE IFJ
E F DAJ G GM IGEA PF E FNF ' F' J FNF ' ' F' J
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MG F HG ' E F G' GM IA %G JA BK IA 9 ' N" EI F' J
#CG CI F JA' E T FK CFDA JG ' ' PA EG' F' J
#C GPA GGO IA M A" J G FC ' CG' CA I I D $IA
P"AF GM H E CA FE AF" B FEE DAJ F PG" CF
DAF' 'N $IA GMMA' JA E IG A A G E MMA A A
CI AM"K IA A' F' E GM - G J >A AE $IA R AA' GM
#CG E A(C"F DAJ IF FE F 'B AFCI GM MF I #IA

 # >@@ C >6=?D@ ; : T Y $ 6>@ F C

FE F'E A AJ IF FE DA A DF A GM PG" CA #IA
TOY JAE AJ IF M IA PAGP"A A A P AEEAJ BK IA ?ANA'
; : IAK D NI FOA AM NA '9'N"F'J #C GPA G"J IA
IF IA C_ "J'G JAPF M GD IA E F G JA * IA'
IA F JA'E I ' AJ '' PF E FE G C GMM M GD IA
I A AE IA PGEE B " K GM AECFPA M IA PF K A A
AFOA IAK IFJ BA A E BD #IA M" 'N G " OA F
IG IG EA FE EIA MA" IA A '

X $IA R AA' EF J 7'G" E X BA 'N JAJ CF A G'"K G
A A'NA '' IGPA GM C G K BK IA F J GM E F'NA E
CG "J'G MG BAF G EFK IF EIA IFJ" AMA F" IA PF K
A A IF'NAJ IF'' IF IAK EIG "J E BD G IA 9F "
GM T FK M EIA A A 'G JA F 'AJ BK MG CA EIA
G "J NG G $ OAK F IA IF'' EIA G "J IF A PAFCA
#IA EIAJ IA EA"M FNF '' '' IA G '' AF"D G FB JA F" "
FJ A' AE >A > NI 'AEE E =G 'C " J J '(AF'' G JF "K
F'J JA"FK IA DA G IA FJ F'CADA' GM IA 9F " GM
T FK E P GEPA K

'' I E I DG T JJ"ADG A MG 'J IA '' EFK 'N
IF EIA G "J CGDD IA CF EA G 9" UFBA I EIA IFJ
'A A J AFD GM CG'EA' 'N G F'' ' AE NF G'' ' G
IA PFE CG'J C #IA IFJ DAF' G'"K IF EIA G "J
FCCAP 9" UFBA I E E PPG '' P AMA A'CA G IF GM
@ F'CA/ F'J EIA IFJ E AJ G IA 'G '' A' AF AE G G
IA EO "" GM >A AE G IF A GB F 'AJ 9" UFBA I E CG'L
EA' A IA G IA CGD 'N F G'CA G -G'JG' G A"EA
G IA M AA PFEEFNA ' G@ F'CA T JJ"ADG A IFJ G EFK
G IA IF X BAMG A JAC"F F G'' GM IA '' GCA'CK GM
IA MG " MFC "F J FNF 'E IA EIA CG "J'G BA ACA AJ
F IA =G $IA JA A' G'' GM @"AD 'N F'J 9" UFL
BA I E "A A G"J IA AE $IA MF G JE F'J MF
P GD EAE CG "J 'G CG'CAF" IF IA CF EA GM IA

JA I G'ADA' FE G BA A(FD 'AJ ' G/ F'J M IA H 2
"A A E A A'G'CA'P GJ CAJ FE J"A G A"" IA IF TOU
IA IG'G G "J 'G E MMA ;--

#IA EF J'EIA G "J'F'E A G IA R AA' \ "A IA R AA'
FJD IA G IA P AEA'CA F'J IAF IA ECF A IA E BL
HAC E CF" D' AE T JJ"ADG A EF J IF MG 9" UFBA I G
ACA A IA G "J JAMAF IA P PGEA/ X IA G "J G "J
EFK >A T FHAE K FE PF F" F'J 'G CGDPA A' H JNA/
X IA G IA E JA G "J 'G FCCAP >A T FHAE K E F B FL
G' F'J EIA G "J BA 'FB"A G IA"P IA

$I E FE E "" G EA/ 9" UFBA I FE 'G G BA PF F"
\ IA G IA E JA A A G BA IAF J F'J G "J GM CG EA
B 'N G IA P GGME >FJ T F K# F BAA' ''GCA' EIA
G "J IF A A"CGDAJ IA GPPG ' K GM IA M ""AE F'J
M AAE A'Q K\ IFJ EIA BAA' ''GCA' EIA G "J IF A
BAA' IA M E G 'E E IF IA I EIG "J BA J FE AJ
G \ B IA CF NI B J CG "J G'"K BF A E 'NE
FNF 'E IA BF E GM E CFNA ' IGPA"AEE FNA

#IA B E X ' G N AF PFEE G' F'J AAP 'N CGDL
P"F ' 'N GM IA A " EFNA #IA IFJ 'G H JNA B 8GJ
EIA EF J/ X 'G'A CG "J FOA PG' IAD G H JNA
! 'CAE #IA XO'A IA JAN AA F'J 'P"FC 'N IA L
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N A IA G 'PA EG'F" A(P"F'F G' GM IF IFJ PFEEAJ
X G "J F'J J J DAF' EIA EF J X G IF A A AJ
E CI DF A ' G IA FE G "J IF A JG'A MG 'G G IA
'G 'A A KA J J G F'K * IG CF' CGDPA" DA G
FCC EA DKEA"M Y EAA IG I 'NE M FDA A " MG DA
 IF A DF'K A'AD AE FBG IA R AA' M E" A ""
'G IA"P DK D EA K IA EA"M EIA CF' JG 'G "AEE IF'
E M A DA P PFEE G G IA ! 'CAE

T JJ"ADG A DFJA IA J EIG'AE E NNAE G' GM IA
ADG F" M GD =F(J E"A #IA FEOAJ M A CA"K M EIA FE
F P EG'A >A EF J X IF IA A FE 'G E CI I 'N

DAF' B EIA FE 'G G BA P"FKAJ B 9" UFBA I
TO] EIA EF J EIG "J NF ' 'G I 'N BK OAAP 'N IA $IA + OA
; : GM=IF A"IA F " FE IA GM #CG "F' J FM A IA ! 'CA
#IA G "J FPPG ' IA + OA IA JAP K F' J IA G "J
X P GEAC A IA Q F A" I F" IA PG A GM @ F' CA
F' J F" IA DAF' E I CI DG' AK M A' JE A" N G' IF A
GM 9 'N"F' J G F' K G IA ' A AE CG "J IG"J G IA
E JA

X $G BA P"F ' I KG MG A 7 'G""KE X IA A E 'G
MF EADB"F' CA GM EPAACI IF EAADA I G ' 'C AJ I
IA $I E CG"J JAF" 'N " 'G EF EMK IA M A K E GL
DFCI E F' K G I 'O EIA " BA E FKAJ BK CG L
AEK G B J"AJ BK MAF M GD B 'N 'N IA @ A' CI ' G
#CG "F' J G M GD ADP"GK 'N F" IA MG CA GM DG' AK
DA' GM F F' J GM M A' JEI P G EF EMK IA B"GGJK
FPPA A

X ! F FK M GD KG D 'J TF K # F IA EA"M G A
G 9" UFBA I X P F FK IA IG NI IF ' CFDA I IA
G EF A DK " MA A IA #CG "F' J 'G IA G "J G "J
IF A AM EAJ DA F AM NA ' CFDA G ACG A DK IG' G
F' J G GB F ' IA"P G CIFE EA DK MF"EA FCC EA E \ 'G G
F' E A IAEA CIF NAE FNF 'E DA FE M ' A A IA AQ F" '
B D KEA"M G FCC EA IAD ' 'KG P AEA' CA @G IA
CF G' E I CI KG EFK KG IF A ACA AJ M GD N AF
PA EG' E 8GJ MG B J IF ' EIG "J BA F AP GFCI G KG /
B DK CF EA AQ AE IFE A -A DA K IF G IA
! 'CAE CF ' JG MG DA F' J 'G B"FDA " IA' AE I
KG 9AE G AJ G DK I G' A BK IA IF' JE ' " IA'
CGDA FNF ' G KG F' J JAMA' J DK IG' G MG DK IG' L
G E EFOA F' J 'G MG F' K 'AAJ G F' E A G DK F G
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JG 'G G' N DA IF 'N EG"F A AECFPAJ M GD G' A P EG'

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3+

BK IG"J 'N DA ' F'G IA / I KG JA"FKE F'J KG ('# ' 'CA F ' AE KG I DA DG A IF' DK MF"EA A'AD AE TOU `'A "" JAMA DKEA"M G KG ' M A'JEI P F'J NGGJ "" B 'A A 'A A G P"AFJ DK CF EA FNF 'E DK E BHAC E '"AEE IAK E F'J BAMG A KG ' DF'FC"AE TFJFD FD 'G AQ F GM IA E F'J G "J EGG'A J A IF' EG BK FC GM D 'A JAC"F A DKEA"M

@ GD TF K# F T JJ"ADG A A' G' G T FK >A MG 'J I D G' IA %G JA I X E (IG EF'J DA' F'J N AF F ""A K F'J IA G"J I D IF FE IA R AA' E P"AFE A IF IA EIG "J JAE E M GD M IA IGE " AE % IA 7ANA' FE 'G F FCO 'N A'AD AE B P ' EIL 'N G "F E . 'JA I E P"AF ' T JJ"ADP A E P AEA'CA F'J IG ADG'E F'CA IA B ' IA IG EAE GM -GCI ' F F'J F'G IA %G JA NA' "ADF' IG A A I IA R AA' GM #CG E F =F " E"A A(IA AFJ FE EIF P F "AEEG' G IA TF(A""E / #C GPA F CI 'N IA DF CIAE GPPGE A F'J ' IA 9 'N" EI P GC"FDF G'E ' IA %G JA G 'E ACGN' E 'N T FK M' G FE ?ANA' KA FE"F M NG A 'G GM #CG "F'J

$IA CIF'NA GM PI FEA CG "J 'G CG'CAF M GD TF K # F IF T FK E F IG K FE F""K FCO'G L "AJNAJ 7 'G""KE AJ G PFC MK IA BK EFK 'N E DP"K IF IA B G IA FE ' PGEEAEE G' GM IA 8G A 'DA' F'J FE E CI IAK A A GB" NAJ G AF I I D / X IA IFJ 'G G IA CG ' A'F'CA IF' IA 'ACAEE K GM IA CFEA J J AQ A % EIA EF GG P"F '"K IF F"" IAEA

 TF K # F G 9" UFBA I ` 'A M _FB JNAJ&' (G" ' ' ': :: ' 9:' <:$@ :C $ =' 9:' H<: : D:C >?' 9 FC' !D<>H:' $C' > ' DJ@ C9' F<>78=' ?' :' 9$=' > ' $=E C:=' >;<C:@E:C B: :< ' <> :' # >@@ C' ' 9:' $8:' >?' @:F: ' 9$=

B:: ' ' 9:'H<>D@8 > C'B; ' ' $C' <>;B@:=' 9 C'@$C ' F9 ' 9$@' '8 ' B:='$ =' ' 9:' 8>< F' :' $@ :<:=' ' >' 9:' $8:' >?' 4>E:< ><' $ =' C>8:'' > 9:<' 9 FC' 9$@ % Z ' ((((((' ; :' O' $$ ' 6$@F' 6

EKDP GDE DAF' '/ I "A EIA FE ' ' #CG "F' J ' ' P EG' ' 9" UFBA I IFJ CF""AJ IA -G JE ABA"E F' J IFJ IA"PAJ IA >FD " G'E G DFOA F PF K FNF 'E IAD/ 'G FE C"AF A'G NI IF T FK FE G BA E E F 'AJ ' ' PG A "" IA DPGEE B"A DA IA' ' FM A P B" C A'L Q K EIA IFJ C"AF AJ IA G ' ' CIF FC A

X ' G "J IA ?ANA' ' IFJ IA FNF ' ' EF J IA PA P"A(AJ 7'G.KE/ XE A"K ' I 'O KG ' EIF"" EAA IA N G EG DPFL A' ' F' J EG ' G"A FB"A ' ' IA JA CAE F' J P FC CAE EIG "K IF ' "" BA DA MG IA X> NI 'AEE G JAF" P"F '"K F' J EIF P"K I IA

' ' -G' JG' ' DAF' I "A >A AE F' J @"AD 'N A A M 'J 'N IADEA" AE 'G "AEE ADBF FEEAJ ' FE 'G GBHAC GM IA E G GB F ' ' IA CG' J G' F" F' J " D AJ AE G F G' ' GM IA R AA' ' GM #CG E I IA CG' ' AJ E P ADFCK ' ' IA NG A 'DA' ' GM T FK F J IA ! GL AE F' E $IAEA IAK EF A A IA BAE AE " E I CI IAK CG "J "GGO MG M GD IA I AF A'AJ A'Q K F' J IAK IFJ F IA IGPAJ G P A A' ' A'Q K F" GNA IA

' ' F' ' F J A'CA G' ' IA P I GM ` 'A >A AE F ADP AJ F P G AE > E D E AEE IA EF J G "J IF A EOAJ IA G E I CI CG "J BAMF"" IA ' ' #CG "F' J IFJ EIA O'G ' ' IG EIA G "J BA AF AJ 9" UFBA I F' E A AJ IF EIA IFJ FOA' ' CIF NA GM IA CF EA F' J G "J NG I G NI I ' '/ EIA ' A' JAJ G AE G A IA R AA' ' GM #CG E G IA C G ' ' A IA BK XFPPG ' DA' ' G BK MG CA/ B EIA D E IAF BG I' E JAE BAMG A EIA G "J JA A D 'A IA CG' J G' E

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T JJ"A FG A E APG GM I E ' A A I TF K # F
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FN AADA' IF IA R AA' GM #CG E IA IA EIA G "J
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IG F IG K GM NG A 'DA' FE IG NI XEG IF J
F DF A IF G "J BA A A' JF'NA G E G P GCAAJ
IF FK #IA G "J XB ' I IF A F' J A A'NA
$IA @ A'CI F' J IA !GPA G "J FOA P IA CF EA/ F' J
FM A IA B AFCI GM MF I G' IA AF K GM -A I 'G
P GD EAE I CI EIA D NI DFOA CG "J BA A" AJ PG' f
$IA =G 'C " ' TF IA !F OA / E "F'N FNA MA" IF
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F'J FE E CI JAEA AJ I E E PPG / FJ CA IA IG NI
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FE P E 'N FE F JF'NA G E G'A F'J IA A'Q AJ
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MG J F'J !ADB GOA X G"J IA - G J @"AD 'N EF J
JA # " F X IF MG IA P AEA' I E D E AEE IFJ BA A
E BD G IA R AA' GM 9 'N"F'J E EIAE F'J F G J
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$IAK A A N AAJK GM DG'AK JG B "AEE / B IAK D NI
'G CIGGEA G CGDD IADEA" AE/ F'J IA EIG "J FPL
P GFCI IAD M E BK G IA F'J BA A DAF'E BG A F""
IA EIG "J F ' I E D E AEE G BA CF AM " IF EIA EF J
FBG IA R AA' GM 9 'N"F'J G IA 'AF AE M A'J IF
EIA PGEEAEEAJ
X $IA -G J @"AD 'N JA # " F CG' ' AJ X 'MG DAJ DA
IF IA IFJ EAC AJ IA E PPG GM IA + OA GM G MG"O
F'J I 'O IA IFE M P G A EG IA R AA' GM #CG E
"" IF A F E G'N PF K ' IA CG ' K MG IA + OA E
D CI BA"G AJ F'J IFE DF'K M A'JE TA' CIF'NA EG
MFE IF IA G"J PF K IG EAJ G E PPG IA EAAD
F" AFJK G IF A MG NG A' IA C DAE "F J G IA CIF NA /
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GM 9 'N"F 'J ""M 'J IA EA"M ' DG A G B"A IF' EIA '
DFN 'AE TOU
+A # " F E GP ' G ' GM IA R AA' GM #CG E IFJ BAA' EG ; :
J E 'C "K MG DAJ F 'J EG APAF AJ"K A(P AEEAJ ' I E
"A A E IF EIA IFJ CAFEAJ G BA F' GBHAC GM ' A AE
A IA G I DEA"M G G ! I " P >A IFJ IG NI F 'J IA
IFJ EF J IF EIA CG "J BA 'G "G 'NA "GGOAJ G MG IA
P PGEAE MG I CI IAK IFJ G 'CA IGPAJ G DFOA IA
EAM " $IA CG 'M JA 'CA IA AMG A EG MF BA AA' I DL
EA"M F 'J 9" UFBA I IFJ BAA' ' DPF AJ >A IFJ
EPGOA' I PA MAC M AAJGD G IA FBG IA R AA' GM
#CG E BACF EA IA IFJ 'G I 'N G CG 'CAF" % ! I " P E
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'GB"ADA' ' 9 'N"F 'J M G MG"O F 'J 'JA" A A
CG' A' AJ G G A "GGO IA R AA' GM #CG E D EJG 'NE
MG A N' ! 'CAE IFJ 'G AFEG' G BA DG A EC P "G E
%G I @"AD 'N F 'J >A AE I AF A 'AJ 9" UFBA I M AA"K
I IA J EP"AFE A GM IA =F IG" C !G A E F 'J C"F DAJ
AEPAC F""K IA 7 'N GM #PF ' FE G 'A GM IGEA G IGD
IA R AA' GM #CG E G "J FPPAF"/ F 'J 9" UFBA I E ACA'
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+A # " F PF J IA F E G ' IA JFK GM I E CG' A EFL
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#CG E ''FDA/ F 'J IA' JA # " F FPP GFCIAJ IA E BHAC
EIA NF A I D CG"J F 'E A E
 EF IF EIA E EPAC AJ DA IA G A EG EF J
IF EIA O 'A DK F' (A K MG IA A"MF A #IA O 'A
IG D CI EIAJ IF EIA EIG "J A(CF A IA EA"M
E CCAEEM ""K M GD IA 'P AEA' ADBF FEEDA' / F 'J
ACGDDA 'JAJ IA IA AMG A ' IA M E 'P"FGA G OAAP F
EIF P AKA PG' DKEA"M
#IA E F AJ '"F NIAJ F 'J EF J IF EIA 'JA E GGJ
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TOU

' ' ' A ' JAJ ' EIA EF J ' G ADG A IA R AA ' GM #CG E M GD IA %G JA ' IA IA ' EIA " OAJ ' ' G ' ' G / F ' J EIA G " J ' G ' EAA IA ' ' EIA IFJ C"AF AJ IA ' AP F G ' / B ' EIA IFJ EA ' MG ' IA 9F " GM T FK ' F ' J G " J NG ' ' G IA DF A ' FE EGG ' ' FE PGEE B"A ' $IA AE " ' I CI ' EIA A(PAC AJ M GD ' ' FE IF ' IA FBJ CF G ' ' F ' - GCI"A A ' ' G " J IF A G BA AF AJ FE F JAFJ "A A ' / IA R AA ' ' GM #CG E G " J BA AE G AJ ' B ' ' JA ' CG ' J G ' E IF ' IA FJD ' E F G ' ' GM 8G A ' DA ' ' EIG " J ADF ' ' I IGEA IG A A ' G ' ' PG A ' $G @ F ' CA ' F ' F " A A ' E ' EIA E ' G ' G NG '

$G I E NA ' A F AEG" G ' ' 9 " UFBA I ' M D "K FJIA AJ ' >A AE CG ' ' AJ G ADG ' E F A ' >A ' E E AJ ' " OA ' I E D E AEE ' IF ' F #G A A N ' ' ! ' CA ' G NI ' ' G ' G BA ' DFJA ' G F ' E A ' G IA ' FCC EF G ' E GM IA ' E BHAC E ' 9 " UFBA I ' EF J ' IF ' EIA EIAJ G ' " K ' G M ' J ' F DAF ' E BK ' I CI ' IA R AA ' ' GM #CG E CG " J B ' FCQ AJ ' $I E ' G ' CA ' JG ' A ' EIA EIG " J BA F ' G ' CA AP"FE AJ I ' IG ' N

% ' E PPGEA ' EF J ' >A AE ' FE 8GJ ' MG B J ' IF ' DK ' D E AEE EIG " J ' G ' BA CGDP"A A"K ' FCQ AJ ' Y

' ' IF ' CFEA ' EIA EF J ' ' " JG ' DK ' BAE ' ' " ' G ' A ' CG FNA ' E BHAC E ' ' ABA " G ' ' MG ' F ' K ' DF ' ' A ' GM CF EA / ' " DFOA ' F F ' NADA ' E I CI ' " EF A ' IA ' IG ' G ' F ' J AE G A ' IA ' ' G IE F ' J ' N

>A AE DFJA ' G ' A DG A AMMG

' M ' KG ' > NI ' AEE " ' G ' IA "P DK ' D E AEE ' IA ' EF J ' IA ' ' " A ' IA ' NG ' "&G ' G ' AF ' IA ' G EA ' IF ' ' KG ' G " J ' AF ' F ' K ' CGDDG ' ' #CG ' G ' @ A ' CIDF ' ' IG ' D NI ' CGDA ' ' G ' KG ' AF"D ' 9 ' A F ' ' IA ' ' ' 9 ' N"F ' J ' FE KG ' " / ' EPA ' J ' F IG EF ' J ' PG ' JE F JFK ' PG ' ' IA ' DF ' A ' F ' CA / F " IA ' EP"A ' JG ' " B ' E COA ' ' IA ' M ' KG ' JG ' %) ' DG A ' #IA ' G " J ' EGG ' A ' NG ' BFCO ' G ' #CG "F ' J ' ' IA ' EFDA ' BGF ' ' ' I CI ' EIA ' CFDA ' F ' J ' EAAO ' IA ' MG ' A

I G NI IA G "J IF' ADF ' ' I E AF"D A(C" JAJ 2
M GD IA P AEA'CA GM KG T FHAE K TOU
>A FE FE 'N I E G JE 9" UFBA I E GGJ G IA PGE L
G' IF EIA G "J IAF IA CF EA M E F' J IA' JAC JA
X E G IA NG 'N G @ F'CA EIA EF J X "" 'G "G A
DKEA"M ' IA AKAE GM DK MA""G # G A A N'E BK FC 'N
" OA F MGG" $IA 7 'N IA I EBF'J IA' EIA FE '
IF CG ' K NF A IA IA E K"A F' J F DE GM I E AF"D
FD 'G F' (G E MG F APA G' GM IF FMMF ' CF'
JAMA' J DK G ' NI % "" 'G GM DK G ' FCCG J
JG F I 'N I CI DFK BA 'AJ G DK I $G "A IA
A ' G #CG "F' J FE EIA CFDA G "J BA 'A IA G IA
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EA "A DF A E I FE D CI EPAAJ FE DFK BA
* I I E AEG" G' -G J >A AE FE GB" NAJ G BA
CG' A' / IA A FE 'G I 'N "AM B G DFOA IA BAE GM
9" UFBA I 'E E AJ G' A'Q K B IF A A IA
AE " EIA E "" ' 'JA GGO IF IA R AA' GM #CG E EIG "J
BA A 'E F AJ F' J IA IG'G EF AJ $IA I IF E
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DFJA P B" C G IA G "J * IA IA 'E CI F"P"F' G "J
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' A' G' I CI >A AE GGO CF A G P B" EI P GJ CAJ
F' AMMAC ' #CG "F' J I CI EIA D NI G D NI ' 'G IF A
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'CA IA -G JE F F"" A A' E A A G A(PAC G AL
CA A IA R AA' FNF ' FDG'N IAD IAK BANF' 'F L
F""K G CF"C "F A IG MF ' G "J BA EFMA MG IAD G
P AEE IA CIF NAE $G CIF NA IA J AC "K I IA
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. > :C '6:D @C 9$ =' =:CD< B F " > ' " 9:' >DD;<<: D:C >?' + $ ' $ =' ; :' ; :' U' 5 $ ' $ "' 510 Y ', 'G - $

C F'J T FK'G'CIGGE'N GEAP MG F J' 'IA JFO
TO# F'J'DFOA'I DEA"M9"UFBA IE CFEPF 'DDAJFA"K'EA''
; : F'E"F G'E GM IA'CFEOA'"A AE G'-G'JG''>A'EFJ'
IF'IA'CG "J'PGJ CA'IA'G N'F"E'F'J'PGA'IAD'G'
BA''IA'R AA'E IF'J'>A'JAE AJ'G'O'G'IA IA'
IAK'AA'G'BA'FJD AJ''A JA'CA/F'J'M'FJD AJ'
IF'AMMAC'G "J'MG""G
'E'E F""K'EFJ'IF'9"UFBA IE GBHAC''''E E 'N'
G''IA''AE NF G''FE'G'J EN FCA'IA'R AA''GM#CG E'
''IA'AKAE'GM'9 GPA'IF'EIA'D NI'BA'FB"A'I'
BA A'EIG'GM'H E CA'G'OAAP'IA'FM A F JE'F'P L
EG'A'>FJ'I E'BAA''IA'P PGEA'IA'F'E A'G'
T FKE'Q AE G'E'G "J'IF A'BAA''AFE "K'DFJA'%'
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EIAJ'G'"K'IF'EG'D CI'A JA'CA'EIG "J'BA'B G NI'
MG F J'FE'G "J'H E MK'IA'-G JE'''IA'ABA""G''
F'J'G "J'H E MK'9"UFBA I'F"EG''AE G 'N'IA'R AA''
I'F'CIF FC A'E" NI "K C"G JAJ/G'BA'DF ' F 'AJ'
'JA'IA'G ''P G AC G F A'F'J' I'IA'IF'JE'EG'
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#IA'AP" AJ'G'T FKE'Q AE G'E'X IF'EIA''A A'
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G'IAF'IF'IA'-G JE'IFJ'G'EFK'MG'IADEA" AE'FE'
F'E AP'G F JE'F'Q A'A'J/X'EIA'J J'G'DAF''EG'G'
JAF'''IA'CF EA'FE'G'P GCAAJ'G'F'K'CGH JAD'F G''GM'
IA'R AA''GM'#CG E'B'F IA'G'CGDPG 'J'F""'J MMA L
A'CAE'BA AA''IA'F'J'IA'E BHAC E'F'J''G'G'F""G'
F'K'MF " E'IF'EIG "J'FPPAF'G'BA''IA'R AA''
>FJ'BG I'IA'-G JE'F'J'TF K'# F'P"FCAJ'IADL
EA" AE' AEA AJ"K''9"UFBA IE IF'JE'IE'P GN FDDA'
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IF A BAA' F""G AJ G'CA DG A G K IA A(PA DA' GM C
EG A A N' K/ B IA -G JE G' IA E JA IFJ GG D CI 51#
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9" UFBA I E CIF FC A FE F' A' NDF IA G G E
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J EPGEAJ G IA EIA CG'E AJ ' G A"FBG F A IKPGC EK
F'J EIA FE GG P G J G FOA BFCO IA C G 'G' E CI
CG'J G'E M EIA CG "J IF A PA E FJAJ IA EA"M IF
9" UFBA I G "J N A G IA
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P"FCA G I CI EIA FE G BA DG AJ #IA G"J 7 'G""KE
IF EIA G "J 'G NG IA A '"AEE EIA FE CF AJ
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A" N G' X#IA IFJ DFJA N AF F E ' #CG "F' J EIA
EF J G IA OAAPA E X#IA P FKAJ 8GJ EIA DFJA 'G
G B"AE 'G IA AF"DE F"EG X M IAK OAP IA P L
EG'A IAK EIG "J IF A A' B NI G JG I IA '
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N F AJ I G' >A DF"A EA F' E A A EA' G GM
IA CFE "A F E 'EA / F'J IA' EIA F"OAJ G GJA EIA
FE F A'JAJ BK F I 'J AJ GM IA %A CO N F J #IA
CF AJ G IA I AF GM JA"ANF 'N IA EG A A N'
PG A =IF A"IA F " IG FE ' !F E FE FPL
PG ' AJ ?ANA' ' IA 'FDA B GF I F'J IA CIL
B EIGP GM # ' 'J A E A A CGDD EE G'AJ G AP AEA'
IA + OA ' #CG "F' J "" IA I DEA"M CG "J B 'N F
@ A'CI F DK G + DBF G'/ f I "A ' 9 'N"F' J IA
FNA' E A A 'CAEEF' "K B EK F IA IG EAE GM IA =F IGL
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' # >@@ $ > 6:D @' ; :' K Y' '6>8 8 CC > ' B ' 9:' %?:: ' >?'
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' C' 9" UFBA I M F 'O"K FJD AJ G JA # " F IA J MM C " AE
TOU ' I CI EIA MG 'J IA EA"M * IF G JG I IA R AA'
` "K GM #CG E '"AEE G EA 'J IA BFCO FE F "F EG A A N'
EIA CG "J eoG A"" M EIA FE AE G AJ I F 'K O 'J
GM PG A EIA G "J C EI T FK F 'J IA -G JE M
EIA FE OAP ' '9 'N"F 'J EIA G "J B AAJ F' 'E L
AC G' +FD"AK E D JA EAADAJ A "K MG NG A'/
F 'J EIA IFJ A(P"F 'AJ F FK IA DF FNA I %G I A""
BK P A A 'J 'N IF FE MG CAJ PG' IA F 'J IA
=F IG" CE AFE "K BA" A AJ IF IAK EIAJ G BA A X
% EG"G 'N FE EIA FJJ AEEAJ IA EA"M G @ F 'CA F IA
IF' G #PF ' 9" UFBA I CG "J MAA" CGDPF F A"K EFMA
! I " P MG I E G ' EFOA G "J 'A A PA D '@ F 'CA G
DAJJ"A ' 9 'N"F 'J / F 'J ! I " P FE FE KA IG"J 'N
G ' 'G 'G A GM A 'CG FNADA' G TF K # F G '
IA IG NI E G F JE I DEA"M

+A # " F IFJ N A' CG"J F 'E A E G @"AD 'N IG L
A A IA IFJ HAE AJ I 9" UFBA I FBG I E G ' JF 'L
NA G E CIF FC A

$IA R AA' GM #CG E G A IA EA"M G ! I " P ' IA
E F" E F ' AP AEA' 'N IA EA"M FE F DF K MG IA
A" N G' \ EFC M CAJ G F' IA A C CG 'EP FCK #IA J A
P AG E P C AE GM IA E MMA 'NE GM IA BF 'J GM EF ' E
IG A A PA EI 'N MG IA CF EA F 'J >AF A' E

! I " P A(P AEEAJ CG 'E JA FB"A JG B IA IA EIA IFJ
F 'K A" N G' F F"" >A CG' A' AJ I DEA"M I EA 'J 'N
F NA 'A F" DAEEFNA GM NGGJ "" F 'J CF G 'AJ I E FDL
BFEEFJG FNF 'E CGDD 'N I DEA"M I IA ' F 'K
FK

>GP 'N IF ' D NI BA EG KA ' 'ACAEEF "K 'CA F '

' +A' # " F' G' ! I " P' ` "K' M Y' ' +$< ' ! ;$< ' >' 19 @ H' . >E: 8 \
' ' B:< M Y 'E>@'
f T F K' R AA' ' GM' #CG E' G' ! I " P' ' 'E C G'E' G' +G' ' 8 A F '
` "K' H \ ' ' J 9EPAE \ ' '

9" UFBA I CG "J G '"K PA EA A A ' IA CG EA I CI EIA 2
IFJ DF OAJ G MG IA EA"M TOU
) ' IA M I GM ` "K IA I AF A'AJ DG A G %G" G ' 24
FE CF AJ ' G AMMAC ' 'EP A GM A(ADA X E G I AF
A' 'NE F' J G IA X FN CF" JADG'E F G'E
9" UFBA I IFJ E "" EA' ' 'G G JA E B 7 'G""KE O'A
IF IA FE G JG/ FM A F M "AEE F ADP G B 'N I E
P EG'A G CG'EA' IA"A IA 'JA E F'J IF IA CG'L
EA' G "J BA J EPA'EAJ I/ F'J IA'EIA MG 'J IF
AE E F'CA G "J BA EA"AEE EIA E BD AJ #IA IFJ
G E BD F"EG G IA J ECG A K IF 'A IA @ F'CA 'G
#PF ' FE ' F'K I K G DG A MG IA /F'J IF
FEE E F'CA M CFDA F F"" G "J BA GG"F A G F J
GMM IA JA AE AJ A'Q K FE 'ACAEEF K G K EGDA
G IA P"F' F'J A A Q CO F'J FJ G EIA CF NI F F
AFPG' I CI D NI A IA P G AC IA M GD 9" UFBA I
G Q COA' IA"F'N G GM IA =F IG" C !G A E
MF G A ECIADA GM IA R AA' JM 9 'N"F'J FE G
DGJA" IA=I CI GM#CG "F'J FM A IA G '/ G ' GJ CA
G I GM $ AAJ B EIGPE NG 'E E P" CAE F'J IA
9 'N" EI - NK I CI IA #CG E IFJ FJGP AJ F'J IFJ
FBF'JG'AJ 'JA IA 'M" A'CA GM 7 'G(#IA JA AE AJ
! F'E F'J F"" IA G OE/ EIA BA" A AJ IF IA CGDL
P GD EA I CI P GD EAJ G F'E A ' 9 'N"F'J G "J
F'E A AQ F""K FC GEE IA %G JA F'J IF =F IG" C F'J
=F" ' E CG "J ' A PG' FE F CGDDG'N G 'J #IA
O'A IF IA PF K F P AEA' ' PG A ' #CG "F'J
G "J" E A' G 'G E CI P GPGEF" TF K# F FE A"
F F A GM 9" UFBA I E EIA $IAK IFJ BAA' DG A IF'
G'CA J AC "K CGDD ' CF AJ G IA F'J IA P GPGEF" IFJ
BAA' A'A AJ G -G J >A AE @ 'J 'N IF IA CG "J
'G F" A IA NA'A F" P PGEA >A AE IFJ A'Q AJ

'v ' IF ' IA CG'J G'E GM IA AE G F G'' A A G BA %'
TOU -*' *T& & $ ' , *+' $, ' , %&'$, &735' 9"UFBA I'
;@ EF J' IF ' IA R AA'' GM #CG E G "J' IF A G F MK'
IA AF K 'GM -A I'/ G A" 'Q EI' IA ' F"" F'CA I'
@ F'CA/ G E BD ' G BA'J G CAJ' M GD' %G I' A""/ F'J'
F""G ' I D' G BA'P GEAC AJ'F'J'P ' EIAJ ' X#IA'D E'
F"EG' FBF'JG'' IA' DFEE' '' #CG "F'J' F'J' ACA A' IA'
=GDDG'' ! FKA ' FM A ' IA' MG D' GM' 9'N"F'J ' M' EIA'
G "J' DFOA' 'G' J MM C "K'G'' IAEA' PG ' E' IA' DF A '
CG "J' AFE "K' BA' F F'NAJ/ F'J' 9"UFBA I' APAF AJ' IA '
P GD EA' IF 'EIA' EIG "J' BA' A 'E F AJ' '' IA ' AF"D
$IA' A DE' A A' BA A ' IF'' D NI ' IF A' BAA'' A(L
PAC AJ' M' IA' R AA'' GM' #CG E' A A' G' BA' AP"FCAJ' F '
F""' A A' E' ' BACFDA' N FJ F""K' C"AF ' G' >A AE' IF '
9"UFBA I' CG "J' 'G ' EI' G' P AEE' IA' A'Q K' GG' MF /
F'J' IA' IJ A ' I E' GBHAC G'E' G' ' X E' G' A"N G' '
IA' EF J' X' IA' EIAJ' ' '' I E' IAF ' G' BA' '' #CG "F'J' FE'
' FE' '' 9'N"F'JI' F'J' IA' BA" A AJ' IF ' F"" IA' R AA' E'
M A'JE' IA A' G "J' BA' EF EM AJ' G' IF A' ' EG
$I E' 'E C AJ' >A AE' IFJ' FOA''"AF A' GM' 9"UFBA I '
F'J' IFJ' NG'A' JG '' G' %G" G'' G' "FK' IA' P GPGEF"E' BAMG A'
I E' D E AEE' 'E F' "K' EAA 'N' IA 'FJ F' FNA ' FM A 'EGDA'
JACA' ' X EIG ' GM' EC P"A ' EIA' CG'EA' AJ' G' F"" IA' CG'L
J G'E' #IA' O'A ' IF ' IA' -G JE' G "J' AM EA' IA'
"FE \ EIA' O'A ' IF 'BK' EAAD 'N' G' FN AA' G' ' EIA' CG "J'
NF '' F' PG ' ' FNF 'E' IAD ' E' M' EIA' IFJ' 'JA NG'A' F'
E JJA'' DA FDG PIGE E' EIA' CAFEAJ' G' I AF A'' G ' CGDL
P"F '' / EIA' N A ' E BD EE A' NA' "A' F'J' CGDP" F' ' #IA

' , E: '3><=' / :<< :C' $= 8 :=' 9$ ' <:$@8 ' 'D> C =:<$ > ' >?' 9:<' <$C9\
C9:' > ; F9 ' > ' >' 9:' <:C ><:=' ; D> \ :CC' $ =' ?>; @' 8$<< $F:' 9' 9:' , $<@'
= > $@@ ' '*9:'3><=' / :<< :Cz' <> :' >?' ' > 9 :@@' 9> 8' 9:' > ; @=' 9$E:'
>@@ C ' $?:<' $' D> E:<C$ > ' 9' H:<C:D; :=' >' =:$ 9 % LZ ' '
9 8 ' ' 8 C@ J:C' >' ' ><=C' 9$ ' C9:' ! ' ; @ ' F0 6 % -3P
C9> ; @=' B:' B< =@:=' ' 9:<' <:F 8 : ' B ' i' / :<< :C' > ((((((' ; @ ' KU Y
9:' $CC C $ D:' >?' >B@: 8 : ' >?' 9: , ' ' $ ' 5 ' Z

<> :' >' + ;<<$ ' ' $' > :' 9$@?' D> D @ $ >< ' 9$@?' 8 @=@ ' #'
<:H<>$D9?;@' !9:' B:F$ ' $' = @ F: ' $: =$ D:' $' 9:' TON
C:<8> C' $ =' C:<E D:' ' '>@ > ' 69;<D9' !9:' > ' . 4 : 48*
>@@ C' 9:$< ' $ =' 9$@?' = C$<8 :=' 9 C' C;CH D > C' B '
9:' D>8H@$D: D ' 9' 9 D9' C9:' @ C : :=' 9 @:' 9:'
D$C @:' D9$H@$ ' =:D@$ 8 :=' F C ' 1$H C < ' !9:' :E: '
@:$< ' >' ;C:' 9:' C@$ F' >?' 1<> :C $ ' 9:>@>F ' C: : 8 F'
<:H: $ @ ' >' $DJ > @:=F:' 9$ ' 9:< >??: D:' $ =' :F\
@ F: D:' >?' 9:< = ; ' > $<=C' 4>=' 9$=' ;C @ ' =:C:<E:='
9:' ;< >;C' H; C9 8 : C' $ =' = CF<$D:' => :' >' 9:< B '
9:< $=E:<C$< :C '
*9:C:' C 8H > 8C' :<:' 9>H:?;@@ ' <:H>< :=' >' + ;<<$ '
$ =' 9:' $C' $ ' 9:' C$8 :' 8 :' ?>< 8 :=' >?? D $@@ ' 9$ ' 9 C'
C C :<' $C' D:< $ @ ' >' B:' <:C >< :=' *9 :' , F@ C9' 9$='
: ' >' C:<E:' $' @> F' $HH<: D:C9 H' B:?><:' 9: ' >;@='
; =:<C $ =' 9:' H:<C> ' 9' 9>8' 9: ' :<:' =:$@ F
T FK' IFJ' F' "G 'NA ' A(PA A 'CA ' F 'J' O 'A ' IA ' BA A
/ :' D>;@=' B; ' C$ ' 9$ ' 9:' <;C :=' 9:' %; : : ' >?' , F@$ ='
$C' D> C;@ F' ?>< ' 4>= C' F@>< ' ' 9$ ' C9:' $C' => F'
C>' 9:' $ =' 9 C' ?< : =C' 8 F9 ' B:' 9:' @:CC' D$<:?;@ >?' 9: <
> ' *>' +$< ' ! ;$< C' @: :<' >' 9 8' 9:' <:H@ :=' B< :?@ '
D>;< :>;C@ ' B; ' 9' >' D> ? =: D:' !9:' 9$=' D9$<F:='
9 8' 9' 9$E F' C>;F9 ' 9:<@ ?: ' / :' C$ =' 9$ ' ?' 9:' 9$='
B: : ' $C' @@ F' >' C9>< : ' 9:< =$ C' $C' 9:' / $ 8 @ > C'
9>' :<:' > ' = C ;<B F' !D> @$ =' ' 9:< $8 :' C9:'
>;@=' @> F' B:?><:' ' 9$E:' B: : ' < =' >?' 9:< 8>< $@ @ ?:
/ :' D$@@:=' 4>=' >' :CC' 9$ ' 9:' 9$=' =:$<@ ' @>E:=' 9:< '
$ =' ?>< 9 C' > 9:< >?@*: D:C' ' 9:' $C' <:$= ' >' F E:'
$DD>; ' $ ' $@@ 8 :C $ =' >;@=' B:' ?>; =' >' 9$E:' => :'
> 9 F' B; ' 9:' = ; ' >?' $ ' 9> :C ' 8$ ' $ =' >?' $ F>>=
8 : 8B:< >?' 9:' D>8 8 > :$@ 9' >?' 9 D9' 9:' $C' B>< ' $'
C;B :D '

' # >@@ C' >' 6 :D @ ' ;@ ' KU Y &;F;C ' 6 Y ' , ' ' - $ '
' !! 0 '
' + ;<<$ ' >' 9:' %; : : ' >?' !D> C

'V TOU &;F;C

E G IA 'P A K F'J '=I CI 'GM 9'N"F'J ED ' T FK G"J #C GPA IA FE N"FJ G IAF ' IF 'EIA IFJ BACGDA EG A" N G E 'F'J IA G "J BA DG A N"FJ M IA BA" A AJ IA ' E 'CA A/ G IA EA X IA ' AEG 'N G IA 7 O GM 9'NL "F'J J J B 'EA A IA ' '' G DG A NGJ"K DA'' G CG'L CA A F NGGJ GP ' G''GM IA 'CG'MG D K F'J G F J'AEE '' #IA CG "J 'G ' B" 'J T FK/ B IF ' FE GM 'G DPG F'CA M EIA CG "J B" 'J 7'G""KE 'F'J I G NI' 7'G""KE '9" UFBA I ' $IA 'A(' PG ' ' FE G F"F D IA =F IG" C !G A E BK ' DF 'N IF ' M IAK J J''G 'IA"P IA 'EIA G "J BA J A'' G C" F'NA IA ' A" N G'

X $IA R AA' ' EIA G A G JA # " F ' X P GDOAE G CGDP GD EA DF A E BA AA'' DA F'J DK ABA"E ' F'J G AE G A DA G DK C G ' ' M ' ""M MG EFOA IA @ A'CI ' N A P DK C"F D G IA 'C G ' ' F'J CIF'NA A" N G'' '' DK AF"D G IA MG D I CI E AE FB" EIAJ IA A TK ! G AE F' 'E BHAC E JA AE ' 'FE D CI FE 'JG/ B 'EIA E E 'N IA 'FJ F' FNA \ 'G ' 'JAAJ IF 'EIA CF AE FBG ' IA D EA FB"A I 'N '' EA"M \ G MG CA DA F'J IA PGG ' =F IG" CE G FN AA/ F'J IG NI MG 'DK G '' PF ' ' G "J EGG'A 'BA D JA AJ 'KA 'KG ' IFJ BA A 'CG'E JA ' IA PGEE B " AE 'F'J EA'J G J G IA 7 'N KG 'DFE A '

=G "J 7'G""KE IF A AFJ I E "A A 'G A 'IA 'EIG "JA ' IA G "J IF A BAA'' EPF AJ EGDA D E FOAE F'J DG A J EFPPG ' DA' E/ B ' MG ' IA P AEA' ' EIA IFJ A AJ IA ' CIF 'E PG'' I D ' $IA G'JA M GDF'' IFJ DFE A AJ IA P AC EA"K CG AC 'MG D BM G JE G'' X ` E L M CF G'' BK @F I ' 7'G""KE FE P G J GM I E P P "' F'J A"F AJ F ' IA P GN AEE I CI EIA FE DFO 'N 'JA ' I E CIF NA f' > E EF EMFC G'' 'JAAJ FE B 'EIG " AJ

' + ;<<$ ' >' !D<>H:' &;F;C 'P Y ' 9'C>8:'D> :8H'>?' 9:'?;<C' $ =' ' , ' ' - $ ' #' HH: C' >?' 9:' & F@D$ 'B C9>HC' :8= ' *9:'%;:: ' >?' !D> C' >'=:' ! @E$' /:<< :C'9$='8$=:',@ I$B: 9'$ F< 'B ' ;@ 'M Y ' ' <:H:$ F' 9:' ><=C' # >@@ C' <> :' ' # >@@ C'9$=' CH>J: ' >' /:<< :C >' 6:D@ !' :7D;C:' 9 8C:@?' / C

$IA =F IG" CE ' IA 'A NIBG IGGJ GM %G" G ' IFJ BAA ' J E BAJ BK F APG IF EIA FE'NG 'N G A #IA CG "J 'G FJD IAD G IA CG'M JA'CA F'J FE JF'NA G E G D E"AFJ IAD GG MF / #IA GGO F' GPPG ' K IA' F "F NA ' DBAY GM IA VG OEI A NA' "ADA' A A FEEADB"AJ F IA CFE "A G DFOA F P B" C JAC"F F G' IF EIA FE E "" GM IA !FP E A" N G' # @ F'C E AP GFCIAJ IA NA' "K MG IA BFCOE" J 'NE/ F'J EIA F""G AJ I D G EAA IA P CA I CI FE G BA PF J'MG IA 'CG' A E G' X * G "J'KG IF A DA

'# '

TOU
N E

@: :< C9> C 9> ' D> F@ ' 9:' %;:: ' >? !D> C 9$=' <>;F9 ' ;H> ' 9 8

& C ' >;D9 F 9:' ?$;@ ' 9$ ' C ?>; =' 9 8 :' $ ' 9 :' 6>;< ' 9$ ' 8 ' 6>8 8 : = F >? 9:' <:@ F >;C ';C$F:C ' !D> @ 8 =' $? :< 9:' ?><8' >? 4 :\ :E$' = =' C> 8 ;D9 ' = C$@@> ' 9:' ?><8 ;@$< :C >? , F@$ =' C 9:<:B ' ' 8 F9 '9 =:< 9:'%;:: C = CH>C > ' >' :8B<$D:' 9:' ?><8C >? , F@$ =' $ =' E:' 9:< <$ 9:< >DD$C > ' B ' 8 C@ J F >? B> 9 >' <:C ' 9:' >@=' 9 D9 9:<' +$:C ' 9 9: 9 E:< ' H<: ;= D $@ >' 9:' H;<H>C:' C9:' (' : =: 9 ' '$ C :< 9$ ' C $ ':$C ' 9 F ?><9:' 6>;< ' >? , F@$ =' >' ? =' ?$;@ ' 9 8 :' B: F $ C 8 H@:' H>><8$ ' D>8 8 : =:=' >' 9:' ?><8' >? 4 : :E$' B:?><:' 9:' ?><8' >? , F@$ = 'B; '9> :E:< 9:'6>8?'=> 9 :7H>; =' 8M' @: :<C ' '$ 8 'C;<:' 9:<:' C :E:< $' 8$ ' 9:<:' 9$ '=> 9 9 J 9$ ' 8 'CH::D9:C 9$ 9 9 =:<:=' 9:' = CH>C > ' >? 9 C %;:: ' >' ?$E>;< : 9:< 9:' ?><8' >? 9:' 6>8 8 > ' 1<$:< >< 9:' <; 9' >? 9:'<:@ F > '>? , F@$ =

' + '3><=' / :<< :C ; =:<C >>=' 8 :' $ =' C>' = =' 9 C %;:: ' 9> C>:E:< 8 ' 3><=' / :<< :C 8$J:' <:@ F > ' >' !:<E:' 9 C H>@ D ' *9 : ' 8 =:<C >>=' 8 :' 9$ ' ; =:< H<: : D:' >? ?$E>;< F 9:' ?> 8C >? , F@$ = 'C;D9 $' < F><\ >;C D> =:8 $ > ' >? 9:' ?><8C >? 4 : :E$' 8 F9 'B:' B<>;F9 ' >' !D> \ @$ =' 9$ ' C "' 9:' @:$< :=' 8 : ' >? !D> @$ =' 9$ ' 9$E:' D> CD : D:C 9:<:' 8 F9 ' 9:<:B 'B:' B$ C9:=' ><H; ' >' C @: D:' $ =' 9: 'B: F C>' =:?$D:=' $' 9 F9' $ 'C9>;@=' B:' 8 $=:' >H: ' >' 1$H C <

S :@@ ' ?' 'B:' 9:' 9$ ' C ?>; =' >; ' >' B:' $' 9 =:<:< >? <:@ F > ' ' <;C ' : ' 9$ ' 9 C 8 '?$;@ ' @@ B:' $8 : =:=' >< :CD9: :=' B ' > 9:<C ' ' ; ' C;<:@ ' 9 C %;:: ' => 9' C:: 8' >; $<=@ ' > ' > @ ' >' ?$E>;< @ :' ?> 8 ' B; ' $@C>' 9:' D9 :? $< D@:C >? 9:' <:@ F > ' >? 9:' 4>CH:@ ' $8 :@ ' ;C ? D$ > ' B '?$ 9' > @ ' $ =' C9:' 9:$<: 9' 9:'?$;@ C >? 1$H C < '<:E:$@:=' B 'H<:$D9 F' >< > 9:< C:' 9' D> \ : :=' :$<C $ =' 9' F: @:' $ =' :$J' <:H@ :C ' $ =' C9:' => 9' > 'C:: 8' >' @ J:' 9:' ><C:' >? <:@ > ' 9<>;F9' 8 :' !9:' =>:C > ' = C@ J:' 8 'H@$ ' =:$@ F ' !';<:@ 'C9:' C $'<$<:' >8$ ' ?>< $C >' ?@$:< ' D$ ' @ F9 @ '$B;C:' 9:<' C>' >' H@$ ' CH::D9' C:: 8 : 9' >' >??: =' 9:<' ?' C9:' 9 J' 9:' CH:$J:< 9:<:>? >' B:' $ '9> :C '8$ ' $ =' B ' 9 C 8 :$ C ' >;@=' 8$J:' >;'B:@ :E:' C9:' 9 JC 8 :' $ ' 9> :C ' 8$ Y ' Z ' ' ! ' &;F;C ' U Y ' , ' ' - $ ' '

TOU
& ; F ; C

"GEo @ F'CA F'J #PF ' F'J F"" DK M A'JE ' G IA P"FCAE EIA EF J X BK EAAD 'N G CIF'NA DK A" N G' F'J KA FD 'G FEE AJ IF IA R AA' DK NGGJ E E A D"" BA DK M A'J G IA EF EMFC G' GM DK IG'G F'J A(PAC F G''Y

#IA IFJ EG MF IA FJ F' FNA ' IA NFDA IF EIA 'JA E GGJ IF EIA F' AJ F'J P"FKAJ IA CF JE FCCG J 'N"K 9" UFBA I IF 'N E CO ' G F C GGOAJ GFJ FE E DB" 'N PA PA F""K ' G 'CA F ' AE JG B E F'J CG' FJ C G'E $G IA R AA' GM #CG E IA "F'N FNA FE F" FKE ' MG D X ! KG EA"M ' DK IF'JE IG AEA A/ "" " E A' G 'G I 'N I CI EIF"" BA EF J FNF 'E KG / KG IG'G EIF"" BA EFMA F'J KG EIF"" BA AE G AJ G KG I G'A * IA' EIA EAJ IAEA G JE EIA DAF' IAD $IA 9F " GM -A' 'G(' FPP" AJ MG PA D EE G' G FPPAF F IA ' AE NF G' G N A A JA'CA FNF 'E IA R AA' f 9" UFBA I MG 'J IF M IA A A A(FD 'AJ GG D CI D NI BA J ECG A AJ F'J IA FE MG B JJA' G BA P AEA' f VA F G IA DAE IA D 'J D ENF A IA BAMG A IA EIFJG GM CGD 'N G B"AE #IA G"J JA # " F IF IA R AA' GM #CG E EIG "J BA AE G AJ B AE G AJ IG PG A F'J IA FCQ F" EIG "J BA EG CG' AJ IF F EIFJG GM N " EIG "J BA F""G AJ E "" G ADF ' #IA IFJ GG DF'K M A'JE ' 9'N"F'J F'J G JAC"F A IA A' A"K ''GCA' G "J BA JF'NA G E G IA CG ' K F'J G IA EA"M

' # >@@ C >' 6:D @' !:H :8B:< K ' Y ', ! !D><C

' *9:' ?><8' >?' 3: >7 C <:L;:C' $C 9$' 9:' 8 F9' B:' H<:C: ' $' 9:' < $@ ?>< 9:' 8 ;<=:< >?' 9 C C> ' 9:' D9 :?'$D >< 9:<: ' C' 'H<:C: ' ', F@$ = % > ' G '6:: ; & ; F ; C ' 47 6 %QQ-L ', ! - $

_ 3:' 6> :' =:' 3: >7'$'?>< 'H<:C\ C[' @$' 5: :' L; @' @; ' ?: ; C ' H:<8 C =:' C:' <>;E:< : ' D:C :' $CC:8B@[:' =:' !:F :;<C'H>;< @$' = D@$ <:< D:' L; @' $' E:;' : ' C $ ' =:' @$' 8><' =;' ?:;' 5> 'C> '?@I' a' @ : D> <:' =:'@$'5: :' = ,CD> : ' 6:' L;:' @$' = D :' =$8 :' @; '$' =:C [' >; '$' H@a Y ' ' ' I 'W '3 6 V ' & ; F ; C ' KT' 5 $ ' E>@ '

g '3$' , : $' 8 :' = 7>' L; :' @>' L; :' H: C9' 9$D < :<$' L; :' E>@E :C:' V' : ;

* IA A IA A FE EG D CI 'CA F ' K F'J FC " C
"F G' 'A IA IA -G JE 'G IA R AA' GM #CG E CG "J TO#
A" IF G "GGO MG $G T FK EAADAJ CA F ' N E
IF 9" UFBA I G "J JAC"F A MG I E E E A >A CG "J
B A' AF X IF I E CF EA EIG "J 'G BA JA A D 'F A"K
CG'JAD 'AJ G DPF AJ BAMG A D NI BA J "K IAF J
F'J FE =AC FJ EAJ IA DFJA IA DGE GM IA DA
IF FE "AM G I D ' ECF A 'N F'J B AFO 'N P IA FEL
EADB" AE GM T F K'# F E'M A'JE IA A A IAK CG""AC AJ
#IA G' IA PF IFJ B G G O' IA E PPG
I A A K DP"ADA' I CI EA' DA' G PG" CK G
A" N G' P"FCAJ I ' IA AFCI -AF 'N IA DAEEFNA
G G O'G' ! I " P EIA BAE ANAJ @ F'CA I M AEI F'J
M AEI PA G'E 8AG NA +G N"FE F'J -G J ="F JA
>FD " G' HG 'AJ =IF A"IA F " F !F E P FK 'N IF
M IA 7 'N G "J 'G IA"P IAD IAK D NI BA F
"AFE F""G AJ G F EA G" ' AA E $IA R AA' E JG K
P G JAJ M 'JE F'J F IG EF'J DA' F "AFE A A
A(PAC AJ G "F'J A IA F + DBF G' G BA JAA'
"AJ BK =IF A"IA F " ' PA EG'

G'A DGDA' TF K'# F FE EG CG'M JA' IF
IAK A A CGD 'N IF EIA EOA CIAJ F P GN FD DA MG
IA P GCAAJ 'NE FE EGG' FE IAK EIG "J BA G' EIG A
F'J I "A EIA AJ G I G 9" UFBA I GMM IA N F J
BK FEE 'N IA X IF EIA JAE AJ G JAJ CF A IA " MA
F'J IAF G IA MG A A 'fEIA FE J AC 'N IA PF K
' #CG "F'J G"AFJ IA @ A'CI G'# " 'N G 9J 'B NI

/ : > D> ' >8B<:' =:' 5 : $' 8$C' Y ' '
L ; :'@>' L ; :' >D$' $@ F>B :< > > 9$B@$' 7 'G""KE G'=AC " #AP ADBA 1 \
=:' : :< $=$ 'H: CB' : '@>' =:'C ;' , - $
;C ?D$D e 9$D:< =:' 8$:<$' L ; :' -' <' ' =AC " ! " # 4
$L ; :@@>' L ; :=$C:' : ' = ; B > ><L ; :' $$ D88+3* " =
C' C:' =:D@$<$B$' C ;' >D: D $' H$<$' E . # ' 0 # . . (*0
@$C' D>C$C' =:C :' 5 : >'C:<$'H:@ F<>C>' @ '@)* (* #
'H><' @>C' $8 F>C' L ; :' : $' 'C:' D> \ = K + '8 @ (Y
<$' :@@$' $8 B [' : $'C ;C' D> E: \ )@`@' 0
: :C Y' ' . ' '0 128 '& ; F ; C 'Q

, $ JAE GK 'N IA CG ' K FE IAK A' / G NA PGEEAEE G' M
TTU PGEE B"A GM IA PA EG' GM IA ! 'CA/ F' J M IAK CG "J
#APADBA _HF CI IA ?ANA' G I E M A'JE G IF'N IAD IG
JA"FK

$IA @ A'CI J J 'G CGDA F'J IAEA ' A' G'E IA AL
MG A CG "J 'G BA A(AC AJ TAF' I "A DA G A G'
@ E N E F'J IA' #AP ADBA IFJ BAA' FPPG ' AJ
MG IA ' AE NF G' B 9" UFBA I FE E "" AEG" A
G E APE IFJ BAA' FOA' F'J IA R AA' GM #CG E BANF'
G IGPA IF EIA D NI AECFPA F" GNA IA " IG NI
'CG' A AJ EIA IFJ 'G "GE IG""K IA PG A GM
CIF D 'N 7 'G""KE #IA DFJA P A K P AEA' E G I E
MA #IA BANNAJ I D X G F F MG IA P F A
FCCAEE G IA T FHAE Kk EIA IFJ EGDA I 'N G EFK X I CI
G "J ' G IA > NI 'AEE E E 'N "F CGD DGJ K F'J
G IA > NI 'AEE EIA JAE AJ G JA G A IA EA"M MG A A f
$G 9" UFBA I IA EA"M EIA G A IF EIA G "J A"K G'
IA F'J IA F"G'A/ X EIA G "J FBF'JG' F"" IA MG A N'
M A'JE/ 9" UFBA I EIG "J BA IA G'A E PPG G I CI
F"G'A EIA G "J E #IA G"J 7 'G""KE I F D EL
"AFJ 'N CF'JG IF X M IA > NI 'AEE J J F B F A IA
DF A BA AA' IA F'J IA E BHAC E FE BA AA' AQ F"E \
F" IG NI EIA G "J FOA IF EIA D NI NA EIA G "J
'G BA EG D CI BG 'J G IA > NI 'AEE FE G IA EA EIA
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FE X AE N'AJ G 9" UFBA I E P"AFE A/ IF EIA G "J 2 X AE F ' IA EA"M MG IA M A M GD GMMA'E A EPAACIAE P F'J 'NE "A MA" F'J A(P AEEAJ EGDA O 'J GM #APADBA CG'M JA'CA IF EIA FE E 'CA A F'J 9" UFBA I FE B GG "" 'N G BA" A A FE FE IA EF J

$I E IA A FE DG A JA"FK \ JA"FK I AF A' 'N G BA 'JAM ' A @G TF K # F 'G I 'N CG "J BA DG A FJ F' FNAG E/ A A K JFK IF IA A'Q K FE PGE PG'AJ G "J DFOA F' 'MF G FB"A JAC E G' FNF 'E IA DG A J MM C " #CG "F'J 'MG 'F A"K FE "AEE FB"A G F $IA CG ' K FE J JAJ BA AA' G F DAJ PF AE AFCI GM I CI FCCG J 'N G 9" UFBA I E P B" C JAC"F FL G' FE MG B JJA' G DG A FNF 'E IA G IA $IA A FE 'G ACGN' EAJ NG A 'DA' F'J IA' IFJ BAA' EF J EG J E 'C "K IF IA R AA' FE CGD 'N BFCO IF F IG K IA ?ANA' PGEEAEEAJ G "J IF A J D ' EIAJ GM EA"M IFJ IA A BAA' 'G CG ' A FC 'N 'M" A'CA % IA C GGOAJ EP I I CI IA IG"A 'F G' FE ' A PA'A F AJ FE F G O G' BG I E JAE GM IA %G JA FE DPGEE B"A IF IA G J 'F K CG EA GM H E CA CG "J BA "AM E EPA'JAJ T FK F IA EAC A 'E NF G' GM =AC " CF""AJ F !F " FDA' A'

 # >@@ C >'6:D @'!:H :8B:<'O Y' , $ - $ C'CD$<D:@ :D:CC$< >'C$ 9$' C9:' $C' $C' @ @:' C D:<:' 9: '$C' $' $ 8 :' B:?><:' >< $? :<' !9:' >@=' ,@ I$B: 9' C9:' >;@=' =:E> :' 9:<C:@?' : <:@ ' >' 9:<' !9:' $C' < F' $' 9:'C$8:' 8 :' >' 9:'%;:: ' >?' !H$ ' >' C$ ' 9$ ' C D:' C9:' 9$=' B:: ' ' , F@$ =' C9:' 9$=' @:$< ' 8 ;D9' >?' 9:' C $:' >?' 9:'D>; < ' ' >;@=' B:' 9:' :$C :C ' 9 F' ' 9:' ><@=' >' <:(:C\ $B@ C9' <:@ F > ' 9:<:' $ =' C9:' >;@=' => ' >< = :' * 9:' >< 9:< ' D>; :C' :<:' =:E> :=' >' 9:' 6 9>@ D' ?$ 9 9 - S ' -

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, MG CAJ MG MA AE P ' EIAJ B AFCIAE GM IA P B" C
PAFCA F ' J IA R AA ' E M A ' JE ' IA ' FDA GM IA PAFCA
#APADBA >FDP G ' E F ' J 8G JG ' E A F" F AJ IA A A IAK
A A E G ' N A ' G NI I B ' ' N F ' J D JA ' N B
E MMA ' N DG A IF ' IAK CG "J ' M" C F ' J G BG I
F" OA IA CG ' J G ' GM IA CG ' K FE ' G"A FB"A
9FCI C"FDG AJ G 9" UFBA I IF IA CGDDF ' JE A A
B GOA ' BK IA FJ A EF AE / BG I F" OA CGDP"F ' AJ
FNF ' E IA E EPA ' EA I CI FE P" ' N ' N #CG "F ' J ' G
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> E D E AEE IA G A G IA 9 ' N" EI =G ' C " ' IFJ
CGDA G 9 ' N"F ' J PG ' IA P GD EAE F ' J IG ' G ' GM IA
EG A A N ' $IA A IFJ BAA ' F DA BG I ' ' 9 ' N"F ' J
F ' J #CG "F ' J IA ' F P" NI AJ G J FE EFC AJ >A
CF ""AJ G ' 9" UFBA I X FCCG J ' N G IF G"J C E GD ' '
IA ' FDA GM IA 9 A ' F 8GJ F ' J IA IG ' G ' GM IA
' GB"A F ' J P ' CA"K B"GGJ GM IA O ' NE M GD IGD EIA
FE JAECA ' JAJ X G M "M IA A ' NFNADA ' E I CI EIA
IFJ DFJA G P"FCA I E D E AEE ' IA G ' CG ' K
F ' J CF EA IA G BA GBAKAJ FE Q AA ' IA A M EIA
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F ' J FCCAP F ' K CG ' J G ' E I CI G "J BA MG IA
A"MF A GM IA IG"A E"F ' J X BG I ' A" N G ' ' IA
P ' EIDA ' GM IA 9F GM %G I A"" F ' J MG F D F
BG ' J GM FD K PA PA F ""K G ADF ' M FM A ADP L
' N I E D E AEE I M ' A G JE X I CI A A IA G ' "K
CF EA GM IA CGD ' N ' G 9 ' N"F ' J 9" UFBA I ' G
CIGEA G MG NA G JA ' K IF EIA IFJ A ' IAK

D E BA CG' A' G"AF A IA R AA' IA A EIA FE B 2
IAK G "J CF. ' IA @ A'CI G IA #PF' F JE G TM
BG I X G A(P "EA IA AFEG'FB"A MF"EA P A A'JAJ F IG #APADBA
K I CI 'G GGO PG' EA"M G "A IAD
#G EF J -G J >A AE I "A IA -G JE G' IA G IA
E JA A A FE "G J ' IA CGDP"F ' E IF B MG
9" UFBA I F' J MG IA MF F"E PPG I CI EIA PA E E AJ
' N 'N G IA R AA' IA CG ' K G "J IF A BAA'
F PAFCA =GDA IF G "J IAK EF J IAK G "J "FK
IA CFEA BAMG A IA G "J X $IA 7ANA' G A I E
EAC A F K `GI' * GGJ G =AC" X G "J IF A BAA' CG'L
A' I'E A K GM E F A F' J E BE F'CA G I DEA"M F' J
I E M A'JE G IF A "A F"" CF EAE GM CG'EC A'CA F' J
IG'G BA EDG IA AJ ' G B" G ' X B IF 'N BAA'
DG AJ G IA CG' F K BK IA R AA' GM 9 'N"F' J E
MG DA JAF" 'NE IA FE 'G JA" BA F 'N G P 7 'N
'F G' E F A I E " MA F' J F"" ' IFUF J BAMG A IA
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'N ' I E "F A P GCAAJ 'NE
%AMG A IA R AA' EIG "J BA I E FNF ' PG' IA
'ACO GM #CG "F' J T FK 'E E AJ IF IA EIG "J BA
IAF J/ F' J I F IF"M FPG"GNK IA JAE AJ =AC " G
EA' J I D F EFMA CG' J C "AE IA EIG "J BA IA"J F
P EG'A ' -G' JG' F IA R AA' GM #CG E JADF' J f
M G 'EP A F"" PF AE I AQ F" J E E FE F
P GGM GM IA DPF F" K 9" UFBA I IFJ EG MF AMMAC L
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9 F' ?' ' $C' >' 9$ ' 9:' # F'
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, D #IA IFJ D E"AJ A A KBGJK/ F'J 'G IA'G'A HNN X F'J IA G IA BANF' G P B" EI IF EIA IFJ EF J 'G #APADBA O A IG G FC G IF G "GGO MG > A 'CG'L E E A'C AE PFEEAJ F DAE BAKG'J FC ""F G' ' G JA" L BA F A 'E 'CA K $G IA @ A'C I DBFEEFJG G JA # " F F'J -G J >A AE EIA J E 'C "K F'J APAF AJ"K EF J IF F F ""A A' E F'J IF A A CFDA GM IA ' AE NF G' IA R AA' GM #CG E EIG "J BA AE G AJ #IA DFJA I E PGE A JAC"F F G' BACF EA IG IA R AA' GM #CG E G "J 'G IF A'CG'EA' AJ IF IA ' AE NF G' EIG "J FOA P"FCA VA F DADG GM =AC " JF AJ G' IA KM J GM #AP ADBA E F AE I F' ADPIFE E DF OAJ BK IA 'JA " ' 'N GM IA G JE X IF & /$ * % -* S,** $% BC$ / /-$, +-* %$, +4, 3$% -* , +* $ */ $ * -* $ BC$ & + -$ *'* -* % * +/ 4- - &4 $ -* C$ & 3 5

9" UFBA I IA EA"M G OAAP ` G"J G' T FK E CG'M L JA'CA APAF AJ G I D 'JA IA G D IF'J IA G JE GM =AC " X ?APG E EIA EF J X A A EP AFJ ' #CG L "F'J IF IF A A EIG "J MF"" G G' IA IAF 'N GM IA R AA' GM #CG E CF EA G CG' 'CA G FCQ IA CG'CA 'L 'N IA IG B"A D JA EIA IFJ JA A D 'AJ G AE G A IA G IA O 'NJGD #IA CG "J 'G A'J A E CI APG E G IF A C AJ FE A' A"K JA EAJ G IA J EIG'G / F'J EIG "J IA R AA' GM #CG E BA MG 'J N " K G "J BAIG A IA G CG'E JA G IA EA GM IA CF EA f T FK CG "J B FCO'G "AJNA N FC G E"K F CGDL D ' CF G' I CI 'A A IA"AEE IA B IF"M BA" A AJ f

. > :C 6 :D @ C 9$ = Y $ %

, @ I$B: 9 >' + ;<<$!:H : 8B:<) * Y , E: 9:<: C:: 8 C $C ?' 9:<: $C $: =:=' $ 8 B F; * 9:' D> D@;= F' H$<$\ F<$H9' >< F $@@ <$: >;@= 9 J' >?' C; =< 9 FC 8 :: :< ?>< ;C >' =>' ?>< 9 :< * 9 :C:' ><=C $<:' D<>CC:=' 9<>;F9' $ =' 9>C:' 9 :' :7 'C;BC ; :=

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$IA R AA' GM 9 'N"F' J IFJ CIF'NAJ IA D 'J G IFJ = P(F AJ ' IA A(P AEE G'E EG DF'K DAE F" AFJK IF TON IA CG "J MAA' 'G CG'M JA'CA ' IA /F'J I 'G I 'N G E G B F NA'A F" JA A 'M 'F GI G FC P NI "K I DEA"M IA P APF AJ G DAA IF A A MG 'A IFJ ' E G A MG I D

$IA 'ACAEE K GM JG 'N EGDA I 'N F IA IF' F'K N G I GM PGE A P PGEA F "A'N I MG CAJ 9" UFBA I MG F J . 'CA F ' IF G "J CGDA GM IA A'Q K EIA IFJ 'A A CAFEAJ G MAA" IF EIA CG "J JG 'G I 'N " " IFJ FOA' P"FCA/F'J FE IA P AEA' E EPA'EA CG "J 'G "G'NA BA CG' ' AJ IA P APF F G'E MG F "A'N I' BANF' $IA A A I AA PF AE G BA AP AL EA' AJ \ IA =G'MAJA F A -G JE IA R AA' GM #CG E F'J IA 9'N" EI 8G A 'DA' $IA MG D GM P GCAAJL 'NE FE IA EFDA I CI IFJ BAA' F M E E NNAE AJ $IA -G JE A Q G BA CIF NAJ I ABA"" G' F'J G "J DFOA E CI F'E A E FE G "J E BAE I IA P AL F F'NAJ AE " GM IA F" \ IF A A IF FE G BA 9" UFBA I IFJ EF J IF EIA G "J 'G AE G A IA R AA' GM #CG E M EIA A A MG 'J N " K/ D NI BA IA AMG A 'ACAEEF K G E PP AEE IA DG A EA G E CIF NAE FNF 'E IA VA M ulA FE G BA"AM I F AP F G' E "" C"G JAJ A'G NI G "J IF A G BA FJ F'CAJ G DFOA IA ''GCA'CA FPPAF F "AFE JG B M "

#G F M C F" F NFDA JAPA'JAJ D CI G' IA PA EG'E EA"AC AJ G P"FK $IA DA FE G BA IA M E AAO ') C GBA IA P"FCA VG O IA EAF GM IA G IA ' NG A 'DA' $IA 9'N" EI =GDD EE G'A E A A IA 9F " GM # EEA(# 9F"PI #FJ"A F'J IA + OA GM G MG"O AP AEA' 'N IA I AA PF AE ' IA =G 'C" # EEA(FE ! AE JA' GM IA =G 'C" GM IA G I F EG" J 9'N" EI CG'EA F A 'GB"ADF' 'A IA PF C

, "F "K FB"A 'G PF C "F "K I NI P 'C P"AJ B DGJA
H oN F A G"A F' F' J F' (G E FBG A F"" I 'NE G EA "A
J MM C " Q AE G'E IG Q F A"E G B"GGJEIAJ
#FJ"A IE G"J EA F' GM >A' K FE F ! GL
AE F' F' J F"DGE F ! F' >A IFJ BAA' F 'AJ
MG I K KAF E ' 'G IA ' J P"GDFCK F' J IFJ IA"J
TF K # F ' I E F DE IA' EIA FE F BFBK G L
MG"O IA P AD A PAA GM 9 'N"F' J FE F =F IG" C '
PG" CE IG NI ' C AAJ IA P GMAEEAJ I DEA"M F' 'N" L
CF' >A F' J 'JA" I E MF IA ' "F A A IA
"AFJA E GM IA N AF PF K DGE GPPGEAJ G =AC " F' J
IA 7AMG DA E GM IA G"J F E GC FCK IG IF AJ A GL
" G' MF G AJ IA #PF' EI F"" F' CA IA #CG CI E CL
CAEE G' F' J FE D CI =F IG" C ED FE FE CGDPF B"A
I 'JAPA' JA' CA GM IA ?GDF' #AA
%K G' A GM IA I AA =GDD EE G' A E IA GMM CA FE 'L
JA FOA' DGE A" C F' "K #FJ"A F DF' GM DGE C"AF
CG' C G' E F' J DGE I NI P PGEA G "J IF A BG 'A
F PF N"FJ"K ' F' K J K ' I CI I E CG' EC A' CA FE
G BA I E N JA/ IA IFJ " "A 'C" 'F G' G A' A F
E" PPA K "FBK ' I IA A IA FE G FOA B E J AC G'
M GD IA 'JAM 'AJ CG' FJ C G K F' J P GBFB"K DP FCL
CFB"A ' A' G'E GM 9 K/ BA I >A FEOAJ =AC " G EA"AC
EGDA G'A EA F' J DG A "AF 'AJ IF' IA R AE G'E
G "J F EA GM X IG FE F K F' Y X IG D NI JAPGEA
F K F' Y X F FE F DF A I CI G CIAJ 'G #CG L
"F' J F' J 9 'N"F' J G' "K B F. O 'NJGDE/ F' J MG
I DEA"M X IA IFJ " AMA EA A >A TFHAE K IA A IA
D NI FJ A' A I E " MA MG IA IF' FDG'N E BHAC E
EG C CF" FE IAEA ' $IA A A EGDA IG NI E GM
ADP"GK 'N # @ F'C E 7 'G""KE 7 'G""KE FE E PL
PGEAJ G EI F' J G BA J EP"AFEAJ IF I E 'FDA

FE 'G ' IA "E / F'J TF K # F IGPAJ IF EIA: C
D NI ' I E DFN 'AJ HAF"G EK G IA FJ F' FNA TOU
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MF J MMA A' EP G G G E FE IA IFJ DFJA I DL
EA"M ' I E PFE FJ GCFCK GM TF K # F E E CCAEE G'
I E FPPG ' DA' DFK BA FOA' FE F E MM C A' P GGM IF
9" UFBA I J J 'G ' A'J IF IA A(FD 'F G' EIG "J
 ' G 'MF G FB"K MG IA G MG"O G "J BA
! AE JA' GM IA =GDD EE G' F'J FE E CI G "J IF A
IA P 'C PF" G CA ' DF'FN 'N IA P GCAAJ 'NE F'J
J AC 'N IA CG'C" E G' G MG"O IG A A IFJ F
M IA P PGEA F EAC A BA AA' I DEA"M F'J I E
M A'JE I CI IFJ 'G A' A AJ ' G 9" UFBA I E P GL
N FDDA $IA 9'N" EI F E GC FCK CG'E JA AJ IADL
EA" AE A A' DG A ' A AE AJ ' J 'N TF K # F G A
IA J MM C " AE IF' IA PF K ' #CG "F'J $IAK BAL
" A AJ FE D CI FE IAK EIAJ G BA" A A GM IA JA" 'L
Q A'C AE #IA FE IA G'"K PA EG' ' IA ' A AE E
IG CG "J BA DF ' F 'AJ BK NI GM B"GGJ FE F CGDL
PA G MG IA E CCAEE G' $IAK A A 'G J E"GKF" G
9" UFBA I/ B FE 9" UFBA I J J 'G CIGGEA G DF K
IAK J J 'G CIGGEA G EPA'J IA " AE I F P GEPAC
FE EGG' FE EIA FE NG'A GM F APA G' GM IA F E GM
IA ?GEAE $IA + OA GM G MG"O FE F I J DA F
* JG A / I E "FE MA -FJK +FC A IFJ H E J AJ
FE M P G JA' F""K G C AF A IA GPPG ' K/ F'J
-G J 'JA" F'J G IA E GM IA PAA E GM IA G"J B"GGJ
FE J E 'N EIAJ M GD IA PE F E IG IFJ BAA' C AF AJ

 ' :'E : C = $HH:<D:E> <:' L ; :' @:' <$ F:$C ' $?$ <:' L ; :@L ; :' D9>C:' H> ;<
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D:C :' >DD$C > ' @' :C ' H DL ; [' D> <:' @:' 8 : :< @' ' $E<> ' H> F' =:' H:< :'
2 ;D ' :' E> ;@=<$ ' L ; :' D:@$' ?; C ' H> ;< > ;C ' Y ' ' ' ' '
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'v ' BK IA ?AMG DF G' IFJ AEG" AJ FDG'N IADEA" AE FE
TOU F DAF'E GM J EPGE 'N GM IA CGDP" CF G'E I CI EG
D >B:< PA P"A(AJ 9" UFBA I IF IA R AA' GM #CG E EIG "J
DF K I D $IA A A G PF AE FDG'N IAEA
'GB"ADA'/ EGDA " OA 'JA" TG' FN A F'J IA
9F "E GM G I DBA "F'J F'J * AE DG A"F'J A A
=F IG" CE/ EGDA " OA -G J +A BK F'J G MG"O I DEA"M
! G AE F' E I F =F IG" C 'C" 'F G' % IA
! G AE F' ED EF " NI "K G' IAD/ F'J M IA NG A 'L
DA' PFEEAJ ' G IA IF'JE F ACG'C" F G' CG "J
AFE "K IA AMMAC AJ I IA AE GM 9 GPA $IA DGE
EA G E PG" CF GBHAC G'E FNF 'E IA R AA' GM #CG E
E CCAEE G' "FK ' EGDA PGEE B"A JF'NA G E CGP'AC G'E
I CI EIA D NI MG D G' IA CG' 'A' ! A DF FNA
I IA M E 'GB"ADF' ' 9'N"F'J G "J F G'CA
ADG A F"" 'CA F ' K G' I E ECG A F'J E"A'CA
ECF'JF" FNF 'E IA CIF FC A

FE IG NI IF 9" UFBA I IA EA"M G "J BA
'J CAJ G MG CAJ G CG'EA' G IA F F'NADA' $IA
+ OA I DEA"M IG NI 'G F M E F JA' ' IA DF A
IFJ P"FKAJ I IA JAF >A A' A F 'AJ _FE "" "
FPPAF ' IA EAQ A"& 'G DG A JG B IF' =AC " GM IA
R AA' GM #CG E EIF A' IA D JA GM +F '"AK/ B
EIA FE 'G " OA"K G APAF F P GCAAJ 'N GM I CI IA
CG'EAQ A'CAE IFJ BAA' EG 'CG' A' A' G IA / F'J IA
P GEPAC GM EIF 'N F C G ' F'J N 'N F JK'FE K G
9'N"F'J FE F "F NA CG ' A A NI G IA Q AE G'FB"A
MAF AE GM IA F"" F'CA E CA F ' IF IA + OA
A' JG ' G VG O I IA ECIADA F" AFJK MG DAJ '
I E D 'J -G J TG' FN A EPGOA GM G IA #PF' EI
DBFEEFJG I "A IA CG'MA A'CA FE ' P GN AEE FE F
DF A F" AFJK CG'E JA AJ F'J F F'NAJ BK IA =F IG" C
PF K/ F'J IA DBFEEFJG ' '"FK 'N BAMG A ! I " P
FE -G J TG' FN A JAE AJ G"J IQ 7 'N IF IA

P GHAC FE EG MF DF AJ IF I I E FPP GBF G' 2
 G "J BA CA F ' GM E CCAEE
TOU
) C GBA
 *9: %;: : >? !D> C J > F > 9 F >? 9: =>=<
 9 D9 $C 9;C B: F >H: :=?>< 9:< 9$E F ?$ @:= >
H<:E: 9: : L; < H<:H$<:= >8: : $C B:C C9:D>;@=
) ' IA IG"A IG A A EIA FE EF EM AJ IF G "J
BA " "A DG A IF ' MG DF" G MG"O EA' IA F DAEEFNA
I G NI I E E E A -FJK #C GPA IF EIA IFJ 'G I 'N G
MAF / F' J EIA E DDG'AJ G %G" G' E CI GM IA M A' JE
FE A A G AP AEA' IA G CG'E " I IAD) '
IA PF GM IA -G JE IA ?ANA' I DEA"M ' A' JAJ G
BA P AEA' IA 9F " GM TG G' -G J - 'JEFK F' J
8AG NA % CIF'F' TF "F' J FE CGD 'N I IAD
'GMM C F""K/ PF "K BACF EA IA ?ANA' FE FM F J G
"AF A I D BAI 'J PF "K GM I E G ' "" X G F F "
MG D NF G' GM IA NG E ' A' JAJ @G IA R AA'
G "J FPPAF >A AE %GKJ - 'NE G' =GCOB '
GM #O " 'N IA M A' JE GM IA D EMG 'AE IG IFJ
FCCGDPF' AJ G MG""G AJ IA G 9 'N"F' J/ F' J "FE "K
>9 3:C@ : ' C9>H >? 5>CC 9> $C $? :< $<=C >
H@$ C> @$<F:' $' H$< D> :D > 9 9:< 9 C ><
 FE I E -AE" A IG MM A' EIA FE M E A ' 'N M GD
@ F' CA G #CG "F' J FE EA' BK > ' "K F' J IA =F IG" C
"G JE G ' A IA G "F' J FDG'N IAD F BA JAA' /
 FE IA IG FE E PPGEAJ G IF A CG' AJ IA
X F EIDA' ' BK %G I A"" / IA FE E "" 'JA MG K

' 1; >C =:' @$C 6$< $C =:' 2> ' D>8 8 CC > ' !9:' 9$=' @:$< ' 9 C
4 :<$;' =:' ,CH:C' &;F;C' KT' .>\ B '$' 8:CC$F:'?<>8' 9:'2;J:' >'3$= '
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$' C;' +$F= ' D >B:< M Y ' / F>>=' ?< : =C' 9>' >;@=' $"' B:' 9'
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C;$=:' 9 8' >' ?$E>;< 9:< D$;C: Y '
' *9:' %;: : ' >? !D> C' >@=' 8:' ! ' ' ' " ' ' " '
9$' 9:<:' $C' >' C;D9' =$ F:<' C H< :=' B ' 4 ! "
' C;HH>C:=' ?><' C9>;@=' ? =' 9:' -' 3+
;=F:C' ?$E>;<$B@:' H< D H$@@ ' 9:'
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' , ' F' DF'' GM' 'M ' A' MF IM "'AEE F'J' FJ G

TOU D >B:<

CFPFB " K' ' '

) '' I D' F'J' >A AE' TF K' # F ' CI AM"K JAPA'JAJ' * IA'' IA' G"DA' G' IA ' F ' %G" G' ' IA' MG 'J' IA ' A' A"K' F ' AFEA ' #IA' G"J' I D' IF ' F"" IFJ' BAA'' F F'NAJ' $IA' ?ANA' ' F'J' I E' M A'JE' A A' G' BA' CF""AJ' G' F'E A ' MG ' IA ' GMMA'CAE' BAMG A' IA' 9 'N" EI' =GDD EE G''/ IAK' A A' G' FJD ' IA ' MF " E' ACA A' IA ' PF JG'E' F'J' X' EG' F"" DF A E' BA' CGDPG 'JAJ ' '

CI' ' EAADE' FE' G MG"O E' DAEEFNA' $IA' % EIGP' IG' IFJ' CGDA' M GD' #CG "F'J' O'A ' BA A ' G ' IG NI ' IA' O'b ' BA A ' IF ' IA' -G JE' ' A'JAJ' >A' EF J' IF ' IA' FE' EG K' EIA FJ' FN AAJ' G' IA' CG'MA A'CA' * IA'' IA' -G JE' A A' FCC EAJ' IAK' ' A'JAJ' G' FCC EA' IA ' '' A ' ' F'J' X' A ' F"" IAK' CG "J' '' IA ' JAMA'CA' IG NI' ' FE' G' IA ' J EIG'G ' #IA' IFJ' IF"M' PA L E FJAJ' I D' IF ' IA' FE' D E FOA'' IA'' # ' ?GBA ' TA" ""A' F AJ' I' F' I AJ' "A A ' M GD' TF "F'J' ' FE' GG' A' X' IF ' T FK' FE' IG""K' BA' ' G' A ' F"" IA' CG "J' FNF 'E ' IA' R AA' ' F'J' G' IF ' AMMAC ' IFJ' CF AJ' I' I D' G' VG O' F.' IA' "A A E' I CI' IA' IFJ' G' P GJ CA' FNF 'E ' IA' R AA'' MG ' P GGM' GM' IA' D JA ' TF "F'J E' MA ' TF K' @"AD 'N' IF ' FE' IFJ' P GC AJ' F' CGPK' GM' IAD ' I CI' IA' A'C"GEAJ

@G ' IA' M E' DA' TF K' # F ' 'G ' O'A ' I CI' GM' IA ' "A A E' IFJ' MF""A'' ' G' IA' -G JE' IF'JE' F'J' IA' J ECG A K' FE' E MM C A' "K' F"F D 'N' $IA' % EIGP' EF J/' IG A A ' IF ' IA' IG NI ' E ." X' IA' DF A ' D NI ' BA' A'JAJ' BK' FN AADA' ' BAMG A' ' CFDA' G' FCC EF G' ' >A' FJ EAJ' IA' R AA'' G' F F.' G' IF ' A'J' I' IA ' M A'JE' F ' VG O' F'J' F ' IA' =G ' F'J' P GD E "N' G' JQ' I E' BAE ' I DEA"M' IA' IFE A'AJ' GMM' G' I^' ECA'A' GM' FC G'

' 6> ?:CC > ' >?' B:' ' C9>H' >?' 5>CC ' H< :='B ' 4 (-

' 3+

$IA CG'J G'E 'JA I C" 9" UFBA INA'A F""K IG NI o C
IF IA R AA' GM #CG E D NI BA AE G AJ IF A BAA' $E $
F" AFJK PF F""K E F AJ \ $IA CG'M DF G' GM IA AF K)C GBA
GM -A I'H F' A'NFNADA' IF ' G'M A'"AFN A'EIG "J'BA
DFJA I' @ F'CA' F'P GD EA IF 'EIA'EIG "J' 'G DF K
IG IA R AA' GM 9'N"F'J E CG'EA' IA P 'EIL
DA' GM IA D JA A E'GM IA 7 'N IA DF ' A'F'CA GM
T FK F IA IAFJ GM IA +*%&C $NG A 'DA' F'J'FE
F CGDPA'EF G' IA ACGN' G' GM IA !"FD " G' "A/
F'J M 'F""K IA AE FB" EIDA' ' '#CG "F'J'GM IA MG DE
F'J CG'E G' GM IA 'N" CF' =I CI
)' IAEA A DE IA 9'N" EI =GDD EE G'A E B G NI
PG A E M GD IA R AA' G CGDPG 'J' F""G E F'J 'N
Q F A"E BA AA' IA G PF AE F'J' FOA DAFE AE
MG IA R AA' E A ' $IF IA AE G F G' FE
G FOA P"FCA F F""A A' E 9" UFBA I' J J' 'G A' A
G EFK/ EIA J J' 'G A' A G DFOA IA 9F "G GM
T FK JAEPA F A/ M IA R AA' GM #CG E EIG "J' BA
P G AJ G IF A BAA' F'PF K G IA D JA IA' 'L
JAAJ X >A T FHAE K FE EIA IFJ IA EA"M A' G IA
9F "G GM T FK G "J' I 'O IA ' G IK GM F'O 'NL
JGD/ B X IA JAE A M GD IA BAN '' 'N IFJ BAA'
F" FKE IF IA EF J R AA' D NI BA MG 'J ''GCA'
F "AFE GM IA G E GM IA CIF NAE FNF 'E IA / F'J
EIG "J T FK X A IA MG BAF G CIF NA IA I' IA
D JA G EIG "J' I E P GGME FPPAF 'E MM C A' IA
=GDD EE G'A E A A IA' G CG'E JA X ' IF EG EIA
D NI BA AE G AJ G IA C G ' IG JF'NA GM F
A"FPEA G MF""G D ENG A 'DA' G IG IA
JF'NA GM IA E BHAC E G MF""G G IA J EP"AFE A IL
G IA H E JAEA E $IAEA 'E C G'E PA IFPE

. > :C > + $:<C >? !D> @$ = C <;D > C B %;: ,@ I$B: 9
&;F;C U 6:D@C 9$ = Y >9:<6>8 8 CC > :<C F> F >0><J
82 Y D E>@ H QP

' v TOU D >B:<

AP AEA' ' IA CG'C" E G'E ' ' I CI' 9" UFBA I E FC ""FL G' ' IFJ MG ' IA P AEA' ' Eb "AJ ' $IA R AA' ' GM #CG E E BE F' F" N " ' FE FC "K DP" AJ ' B ' T FK FE M PGEE B"A G CG'M 'A I DEA"M G CIF NAE GM D ENG A ' ' DA' ' BA E "A' ' PG' ' IA D JA ' OAAP BFCO "A A E I CI ' M P GJ CAJ ' G "J DFOA bCG'C " F G' ' DPGEL E B"A F' J F""G ' IA R AA' ' G A ' ' ' E CI F MG D FE G P A A' ' M IA FBA F G'E

* I' IAEA CG'J G'E ' CG "J T FK BA B G NI ' G CG'EA' ' G IAD ' IA % EIGP GM ?GEE ' A'JAJ NA'A F""K G CGDP"K ' $IA CGDD EE G' ' I CI' IA CF AJ F FK M GD %G" G' ' ADPG A AJ ' I D ' G K A"J ' G' ' F"" G"A FB"A PG ' E AEPAC F""K G CG'EA' ' FM A ' F . ' G IA AE FB" EIDA' ' GM 'N" CF' ED ' I CI' G "J BA EG N F AM " G 9" UFBA I ' M FCC EF G'E A A B G NI ' FNF 'E ' IA R AA' ' I CI' G CIAJ IA ' IG'G ' IA FE G JA'K IAD NA'A F""K ' F'J AM EA G A' A ' PG' ' IA E BHAC ' ' FE IGPAJ ' IG A A ' IF ' T FK G "J P G A DF'FNAFB"A ' F'J IF ' I E CG' 'NA'CK G "J ' G ' F EA

$IA % EIGP F' J' I E M A' JE A A IA M E ' G F A ' AFCI 'N VG O G' ' #F JFK ' IA F' J GM) C GBA ' # EEA(' #FJ"A ' F' J G MG"O CFDA ' ' IA 'A(' JFK ' F' J' G' ' TG'JFK DG ' 'N IAK A A HG 'AJ BK T FK ' TG G' ' F' J IA ' CGDPF' G'E ' -G J ' * AE DG A"F' J "FK ' ' F ' MG ' IA PF K CGD 'N M GD #CG "F' J' G' ' IA DGG E ' G NA ' PGEEAEE G' ' GM IA =FEOA ' F' J JAE GK /

' $ S 9: ' ' $C =:C <:=' 9$ ' 9:' <:@ F > ' $C ' H<:C: @ ' C ' , F\ @$ =' C9>;@=' B:' :C $B@ C9:=' $ =' ;C:=' ' 8 ' <:$@8 ' ' C >' B:' $ C :<:=' B ' >;' 9$ ' $@B: ' ' 9$E:' B:: ' C <;D :=' $ =' >;< C9:=' ' 9$ ' <:@ F > ' 9 D9' 9$C C >>=' @> F' 8 :' 9 ' 8 ' <:$@8 ' $ =' B:: ' >BC:<E:=' B ' 8 ' H<:=:D:CC><C ' D$@@:=' 9:' $;@=' <:@ F > ' : ' :E:< 9:@:CC ' @@ ;C:

9:' D>; C:@ >?' 8 ' =:$< ' C C :< 9:' %;:: C + $:C ' >?' , F@$ =' 9:<:($: ' B ' 9:' $=E D:' >?' 8 ' :C $:C ' 1$<@ $8 : ' $ =' @$B>;< 9$ ' C ' 8 :' >' D$;C:' 9:' C$8 :' 9$E:' H@$D:' 9<>;F9' $@@' 8 ' <:$@8' $C ' C H<>\ H>C:=' >' 9:' F@>< ' >?' 4>=' $ =' ; \ ?>< 8 ' >?' <:@ F > ' ' 8 :' D>8 F ' ! ' ' ' ' ' ' ! :H ' FN' ' ' E>@'

B A IA IAK GGO F'G IA GFJ G A A ' GG E G'N ' 2'
MG CA G BA DAJJ"AJ I
510
%AE JAE IA P 'C PF" PF AE IA G ' FE M ""AJ I')C GBA
E F DE GM PG" C F'E P FC EA E F'J #CG CI F'J 9 'NL
" EI =F IG" CE F"" CG""AC 'N G F CI IA P GN AEE GM
IA E F'NA FEEADB"K F'J BK MF DAF'E G MG " IA"P
MG F J IA ' A AE E GM TF K # F
$IA M E I AA JFKE A A EPA' ' 'P A" D 'F AE '
P G AE FE A' A AJ BK IA % EIGP GM 9GEE G EF A IA
EG A A N' NI E GM #CG "F'J J EC"F D 'N IA H EJ CL
G' GM F' 9 'N" EI CG) ' IA PF 'GM 9 'N"F'J F
CG ' A FEEA G' FE P ' ' GM MA JF" E PA G K
%G I IA GBHAC G' F'J AP"K A A ' JA E GGJ G BA
MG DF" F'J A A PFEEAJ G A X I DA K F'J P"AFEF' '
EPAAC IAE) 'GM CG 'DAF' I "A IA =GDD EE G'A E
F"OAJ G A FDG'N IADEA" AE IA CG'J G' GM IA CF EA/
F'J G MG"O ' ' F P F A "A A ' G' IA o I ' G"J =AC "
IF X M F"" FE A J CI FE E AFJMFE "K FMM DAJ
IA MAF AJ X IA DF A G "J MF"" G A K MG " '
% E 'AEE CGDDA'CAJ G' IA u I BK IA P AEA' F G'
G' IA PF 'GM IA R AA' GM #CG E GM F CIF NA FNF 'E
T FK F' I E FEEGC F AE MG BAF 'N F DE FNF 'E
IA EG A A N'/ F'J IA DA IFJ CGDA MG T FK G
P ' ' I E JAMA'CA * IF FE IA FBG G EFKY
$IA JFKE J 'N I CI IA PF AE IFJ BAA' GNA IA
IFJ 'G BAA' FE AJ "FJ -G J %A AE F'J IA
% EIGP GM %GEE BA" A AJ IF IA =FEOA "A A E A A
MG NAJ IAK G "J IF A EI 'O M GD 'G A'Q K F'J
#G NI 'G CGDP GD EA/ IAK G "J IF A E GGJ G' IA
9 NI F' FNA N G 'J GM I F'J IF A E DP"K JADF'JAJ
AJ AEE MG IA CF" D' F AJ EG A A N' 'E AFJ GM
I E IAK IFJ BAA' F G O ' CG'CA I' TF "F'J

/ $ 3 $% 4 & +

'V ' G PA E FJA T FK ' G E"A'CA G G O PG' I E TOU ' A AE E F'J G G O PG' I E MAF E $ IAK G"J I D D >B:< TG G' IF HM IAK G "J EFK 'G I 'N GM IA D JAP X IA R AA' GM #CG E G "J DFOA I IAD IF AFEG'FB"A A'J EIA CG "J JA EA I "A G' IA G IA IF'J IF A A 9" UFBA I D NI 'G EFK G I D MG IA G ' DDAJ F A'A'JE EIA FE AF""K JA A D 'AJ G AE G A IA R AA' GM #CG E F F""" A A' E F'J 'JA F""" C C DE F'CAE/ IAK IA"J IA P GD EA ' IA G ' IF'J 'N % F'J M T FK FE 'G G 'M" C EG JAAP F G 'J PG' I E D E AEE EIA G "J 'A A MG N A I D T FK IFJ CGDA G IA CG'MA A'CA P APF AJ G FC IG'G FB"K F'J IA MAF GM A "" CG'EAQ A'CAE G I DL EA"M G "J 'G D CI IF A 'M" A'CAJ I D/ B IA IFJ P G AJ ' I E G ' PA EG' IA F" A GM 9" UFBA I E MF G JE/ F'J IA JA A D 'AJ 'G G P GCAAJ """ IA IFJ DFJA F'G IA AMMG G FECA F ' IA A IA FE E F'J 'N >A EF J IA AMG A IF F" IG NI IA FE A""" FB"A G AP"K G IA R AA' GM #CG E CIF NAE F'J G EIG IF IA F'J I E M A'JE IFJ NGGJ N G 'JE MG IF IAK IFJ JG'A KA IAK A A ' "" 'N G CIF NA IA 7 'N IA EG A AN' E DG IA I C DAE I CI I IA G IAK IFJ CG'CAF"AJ X F'J DF' MAE G IA G "J IA ' MFDK F'J J EIG'G % AMG A IAK G "J A' A G' F E AP EG EA G E IAK AQ AJ G BA 'MG DAJ IA IA IA "F'N FNA I CI IAK IFJ IAF J M GD >A AE *FE A

' 7 'G""KE IG ' && P AEA' F' VG O G A G' IA< I GM) C GBA G =AC " X 'EAA IF D K - G J >A AE MG I E PF "FBG A I F ACG'C " FL G' G IA IFJ IG IA A(A K GM GJ G E FCC EF G'E T K - G J GM - AJ 'N G' F"EG EF I G DA IF IA G "J EI IAEA DF A E G BA A'JAJ ' J "CA DF' 'A ' EG IF

D NI IA JG'A I EFMA K \ 9 BB ' , - $ $ /' # $, /* G MG"O G ! ADB GOA - A CAE A F'J =AC ") C GBA ' ' \ 9 BB 7 + f X $ IAK J J' 'G "A G EFK IF IAK IFJ KG T FHAE K E P GD EA G EIG ' ' 'N G CG'M D IA EFDG \ " $ % $] B, //*T' & +' B&+ * ' $ 9 6+7* -) C GBA < \ 7 +

F' J IA IA M IA R AA' GM #CG E FE P G AJ N " K 2
EIA FE AF""K G BA MG CAJ PG' IAD FNy ' TO#
$IA =GDD EE G'A E PG ' AJ ' AP"K G IA 'E CL)C GBA
G'E N A' BK 9" UFBA I G IADEA" AE/ IA > NI 'AEE
IGPAJ IF IA R AA' GM #CG E D NI BA MG 'J ''GL
CA' / M P G AJ G IA EA EIA G "J 'G E F ' IA
CG'EC A'CA I IA DF ' A'F'CA GM COAJ 'AEE
T FK EF J IF ''G IE F'J 'N IAEA G JE IA A
FE F A K NA'A F BA" AM IF IA R AA' GM #CG E FE
G BA AP"FCAJ X IG A A DF A E MA" G FE EG
APG AJ ' #CG "F'J'/ F'J FE EG EF J F IF A K
DGDA' F VG O >A CG "J 'G B E EPAC IF
X F" IG NI IA > NI 'AEE D NI 'G AE G A IA EF J
R AA' DDAJ F A"K KA DAF'E G "J BA G NI G
IA A" AM F F "F A DA G IA 'G " "A JF'NA
>A P GJ CAJ MG Q AE G'E G I CI IA EF J IA D E
IF A F C"AF F'E A BAMG A IA G "J P GCAAJ I
IA FCC EF G'E
@ E >FJ IA =GDD EE G' PG A G PFEE EA' A'CA
GM N " K G IG N " K FCCG J 'N G IA DA E GM IA
CFEA Y
#ACG'J M IAK IFJ I E PG A J J IAK ' A'J G
EA Y
$I J M IA DFJA I E CIF NA F'J P G AJ IF
FE G BA JG'A I IA R AA' GM #CG EY
@Gx I * G "J IA R AA' GM 9'N"F'J ' IF CFEA
DF ' F ' IA F IG K GM IA KG 'N 7 'N Y
X $IA CF EA IA EF J X FE EG A NI K F'J G CIAJ
IAD F"" EG 'AF IF IAK F"" AEG" AJ 'G G FCC EA
IA R AA' GM IA D JA ' " IAK O'A MG CA F '
IF IAK A A G "GGO MG
X $IAK BA ' IGPAE F'J CGDMG G A IA =GDD EL
E G'A E IF M IAK JG 'G B 'N P IA G E CIF NAE
IA R AA' GM #CG E "" BA 'J CAJ G F AFEG'FB"A

CG PPGE F Q'/ F'J G' IA G IA E JA M IAK P GCAAJ G
TOU A(AD MK IAK BA G M GM IGPA GM F'K NGGJ CGDPGL
D >B:< E G' F'J EG EIF "" A F" FKE 'JF'NA
X EAA E # EEA(G A EAPF F A"K X IAK IA BA'
G G'A GM G A'JE\ A IA G P G A IA N " K GM IA
D JA F'J IA' 'C A G IAF OA' FM A G F'K CGDL
PGE G' IA A ' IAK "" 'G JAF BAMG A IAK DFK BA
FEE AJ IF M IA D JA E AJ IA R AA' "" EG
OAAP IA FE EIA EIF"" BK 'G DAF'E G O IA I
IA AFM A \ G A"EA "AF 'N GMM A' A"K G CIF NA IA I
IA D JA EAAO F ACG'C "ADA' F'J CGDPGE G' GM F""
CF EAE IG G CI 'N IA F'K FKE 'IA IG'G
 D NI IF A BAA' IG NI M GD IA "F'N FNA GM
IA =GDD EE G' IF I E FE P AC EA"K IA A'J F I CI
9" UFBA I FE F D 'N #IA J J 'G EI IA R AA' GM
#CG E G BA MG 'J N " K/ EIA IFJ EAADAJ G JAE A IF
EIA EIG "J 'G BA FCC EAJ % E CI F CG'C" E G'
G "J 'G IF A F'E A AJ BACF EA G "J IF A BAA'
GG CGDP"A A #IA G "J BA 'FB"A G JA F ' IA
R AA' GM #CG E F'K "G'NA ' 9 'N"F'J/ EIA G "J IF A
P CIFEAJ MG IA EA"M G'"K IA AEA' DA' F'J E EP C G'
GM F"" PF AE/ F'J IA E F ' I CI EIA FJD AJ G IA
#PF' EI DBFEEFJG IF EIA JAE AJ EIG "J AE PG'
IA R AA' GM #CG E G "J J EFPPAF ' IA FBEA'CA GM
FCC EF G' $IA =F IG" C G "J G "J ' A EF""K
FCCAP IA FCQ F" F'J IA JF'NA GM IA G ' PGE G'
G "J BA 'M ' A"K FNN F F AJ $IA CG'EAQ A'CAE GM
IA G ' C GGOAJ CG'J C A A CGD 'N BFCO PG' IA
#IA IFJ 'G DAF' F'J EIA J J 'G DAF' G FC 'L
MF "K/ B EIA ' "J 'G FCCAP IA "AEEG'E I CI
7 'G""KE IFJ AJ G AFCI IF IA DG A IG'G FB"A

 G MG"O'#FJ"A 'F'J'# EEA(' G'9" UFBA I ')C GBA '< \ 9 BB', - $
I' # EEA(' G' =AC "')C GBA ' < \ 9 BB', - $

FK FE IA P"F FK/ EIA CG "J 'A A F A" I (
CGDMG G' F E F NI GFJ F'K IA A/ X TOU
) ' IA DG ' 'N GM IA Q I I "A T FK FE E "" D >B:<
PF E 'N PG' I E F'E A G MG"O JA G I TF L
"F'J G =F GGJ F'J G"J I D F N AF "A'N I IF
IF A A IFPPA'AJ 9" UFBA I IFJ JA A D 'AJ X'G G
A'J IA CF EA F IF DA #IA P GMAEEAJ G EI IF
T FK EIG "J F G J A(AD AE KA ' AF" K EIA
' A'JAJ I D X G D A F"" IA CG "J G IA R AA' GM
#CG E J EIG'G / G CF EA IA G CGDA ' J EJF ' I
IA IG"A E BHAC E GM IA AF"D IF EIA D NI BA IA
DG A 'FB"A G F ADP F'K I 'N G IA J EFJ F' FNA
X * IG FPPG ' 'N IA DF A EIA ' A'JAJ G OAAP
IA R AA' GM #CG E ' 9 'N"F' J . X E" A EIG "J I 'O
DA G EIA IA MF G #IA FE DFO 'N EA GM IA
-G JE MG IA G ' P PGEAE/ EIA FE DA A"K EFK 'N
G IAD IF A A G "J F'E A IA DDAJ F A A'J
F'J EIA G "J I G IAD G A FE EGG' FE E AJ IA
CG' A' A'CA

G MG"O I DEA"M FE EG" "A CF AM "GM I IF PA L
IFPE IA ' A' AJ I E JF'NA G E E F ADA' FE F' DAF'E GM
G O 'N PG' T FK/ B FE EG P AC EA"K F APAL
G' GM IA MG DA AF DA' I CI T FK IFJ DA
I'/ FN AAJ EG C"GEA"K I' IA "F'N FNA G JA # " F
IF ' F"" P GBFB " K FE 'G DG A IF' F BAL
FKF" GM IA CG'M JA'CA I CI' I E D E AEE IFJ AF""K
APGEAJ ' I D TF "F'J BANNAJ IA + OA G EPAFO
G IA ?ANA' I DEA"M F'J IA 'A(DG ' 'N F F'NAJ
F P F A ' A A BA AA' IAD $IA + OA A(P"F 'AJ
IA' F "A'N I IA MAA" 'NE GM IA 9 'N" EI 'GB " K
G' IA #CG CI' E CCAEE G' ! AXEPGOA GM TF K # F E
C"F DE G IA C G '/ GM IA PG A M " PF K IG MG

' $IA' % EIGP' GM' ?GEE' G' IA' R AA' ' GM' #CG E') C GBA ' <' PF ' C PIA \
=) $) 7' 9 B B ' =F" N ' =

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2 F G E AFEG'E A A JAE G E GM E PPG 'N IGEA C"F DE/ F'J IA 'H K I CI G "J BA 'M" C AJ BG I G' X` A G ' F'J IA ! 'CA E P GEPAC E M IA CIF FC A FE P B" C"K E F 'AJ M A J A"" 'N FNF ' G' IF IA IFJ EF J G TF "F'J IA FJJAJ "K G MF"EA"K F'G IA "" E F G' GM 9" UFBA I E 'E 'CA K #IA P A A'JAJ G JAE A IA EF J IF %G I A"" EIG "J BA FOA' F'J P ' EIAJ KA EIA IFJ AM EAJ G ' A CAJA I IA 7 'N GM +A'DF O MG I E A(FJ G'/ X IA TFHAE K G "J 'A A EG" C IA EFDA B P PGEA"K IA"J I D " 'N FBG A IA EF J R AA' E IAFJ G E FK IA M GD F'K G IA DF FNA >A PG ' AJ G IG D CI EFMA G "J BA MG T FK 'G IA' IA GPPG ' K FE GPA' G I D G CGDA G F' 'JA E F'J 'N I I E G ' EG A A N'/F'J IA' 'J AC "K FPP GFCI 'N I E G ' N AF EAC A IA + OA EF J X G "J BA CG' A' A' IA R AA' GM #CG E IFJ DG A CI "J A'/ IA A BA 'N B G'A BF ' P GCAAJAJ GM IA / #CG "F'J F'J 9 'N"F'J A A F" OA ' A AE AJ ' IA 'C AFEA GM IA MFD "K F'J T FK E G ' MG 'AE JAPA'JAJ G' F"EG X IA >FD "L G'E I E 'M A'JE IF 'N IA 'A(C"F D G IA C G ' GM #CG "F'J F'J IA EE A GM IA BGJK BA 'N " OA"K G BA DG A FMMAC G'F A G I D F'J I E IF' F'K G IA IF CG "J F F ' G IF GGD

T FK E PGE G' FE 'G F' A(CAAJ 'N"K J M" C " G'A >A O'A BK A(PA A'CA IF 9" UFBA I FE PA L MAC "K CFPFB"A GM BA FK 'N I D >G A A CF A"AEE IA D NI BA GM I E G ' ' A AE E IA IFJ I E PF K F'J I E CG ' K G CG'E JA FE A"" FE I DEA"M FE GPA' G I D BK F P F A FN AADA' I I E D E AEE G GB F '

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MG NG A' F"" PF AE ACG'C "AJ ' F NA'A F FC GM
'JAD' K/ F'J IA PG A M BGJK GM 9'N" EI 'GB"AE
F'J E F AEDA' IG A A ' MF G GM IA #CG CI E CL
CAEE G' "F J 'JA IA JAAPAE GM F"" GB" NF G'E * IF
FE 9" UFBA I G I D IF MG IA EFOA IA EIG "J EO
F"" IAEA FJ F' FNAE I 'G BA A N G 'J IF' IA
PGEEAEEAJ MG BA" A 'N IF IA CG "J CG ' PG' IA
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>A AM"AC AJ MG F JFK F'J G' IA I IA NF A ' I E
M E MG DF AP"K G IA =GDD EE G'A E GM IA R AA' GM
#CG E 9 IA IA CG "J 'G G IA G "J 'G F MG
IA F'E A E G I E MG Q AE G'E/ F'J F G J 'N A A KL
I 'N FPP GFCI 'N G F CIF NA FNF 'E IA GM IF 'N
BAA' CG'CA 'AJ ' IA D JA IA "F J IA N " G'
%G I A""/ IA JAMA'JAJ IA ABA"" G' F'J IA 9GCI"A A'
DP EG'DA' G' IA N G 'J E DP"K GM IA R AA' E
DF FNA F'J %G I A"" E C DAE I I E GB G E ' A'L
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G 'G DG A IF' F PG" CF JAMA'CA I CI IA R AA'
GM #CG E IA EA"M D NI FCCAP IG J EN FCA/ F'J
IA FCC EF G'E FE MF FE IAK G CIAJ IA EA"M A A EG
M FDAJ FE G FJD GM AFEK A(P"F'F G'

TG A IG A A FE 'J CF AJ ADF 'AJ BAI 'J
I CI CG "J BA P GJ CAJ M 'ACAEEF K $IA R AA' GM
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AP"K 'N G T FK PG ' E/ F'J IA A FE IA' F
PF EA "" M IA 'E C G'E CG "J BA ACA AJ M GD
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" IG NI T FK IG A A AM EAJ G P GCAAJ P BL
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IAE F A F IA P GEPAC I CI I E M A'JE JAE N'AJ MG
I D % CIF'F' I DEA"M CG "J ECF CA"K IF A A'JA AJ
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X$IAK EIA AJ DA IA G A X F IG B"A F'J "G'N
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DF A F'J FBGD 'FB"A G BA A IA IG NI GM G
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B JA AE F'J FBIG IA EFDA

$IA -G JE IA EF J A A AFJK G E AF IF BG I
"A A E F'J A EAE A A ' IA G ' IF'J 'N/ IA
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' A' AJ/ F'J X FE F FE IF J G CG ' A MA EG DF'K
F'J EG "G'N "A A E EG EAADAJ M GD IA DF A GM
IAD F'J IA DF' 'A ' ' I CI IAK A A J ECG A AJ
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I E JAEPF CI F'J IA "AM ' G 9" UFBA I G EFK IA IA
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G B" 'J IA 9'N" EI 8G A 'DA' FE G I E G ' A E/
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EIG "J BA IG NI FE JA AE FB"A F'J DF' MAE G IAD
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X * IG IGEA J MMA A'CAE A A CG'C" JAJ IAK G "J
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'N IA R AA' GM #CG E G -G J B GF I % IA A
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GDF' IG CG "J A IAD FE 'G BG ' MG I NI
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E NNAE AJ G I D IA PGEE B" K GM DF K 'N IA G
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G "J CGDA G F' FN AADA' FDG'N IADEA" AE I CI
G "J FOA IA DF A G GM 9'N" EI IF'JE * I "A
IA CG'MA A'CA FE E EPA'JAJ 7'G""KE A 'AJ G
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PFEEAJ ACA AJ I D I AFNA A'Q AE X * IA IA
IA -G JE G "J P GCAAJ I IA GJ G E FCC EF G'E
G IA IA IAK G "J E FK F'J BA ACG'C "AJ G IA Y
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F'E A AJ G 'J"K' F'J G IA M "" F'J IA' A A IAK
PFE F"" ACG'C" F G' #IA G "J E AF IA "A A E
A A MG NAJ/ EIA G "J 'E E G'BA 'N IAF J ' PA EG' '
F'J EIA G "J CIF NA TG G'F'J TF "F'J I IF 'N
IADEA" AE BAA'' PF AE G IA D JA % 7'G""KE
NF IA AJ M GD IA IF EIA IFJ 'G JAE A G P"FK EG
JAEPA F A F NFDA/ EIA D NI ' ' IAD B EIA CG "J
ECF CA"K' EF A IA EA"M' >A F'(A K FE A JA' "K G
DFOA EGDA F F'NADA' I CI G "J P A A' IA
"A A E M GD BA 'N P B"EIAJ + E E 'N 9" UFBA I
FE D CI FE T FK J E E AJ IA EIA FE 'G I G NI
IA M A'JE E 'N F"" IA A'JAF G E G G O PG'' IA
-G JE/ F'J EIA EAADAJ A K" OA"K G E CCAAJ
-G J # EEA(''F'' FB"A "A A "F J BAMG A =AC " IA
IG"A BAF 'N GM IA Q AE G'
X $IA DF A G "J IF A G A'J A IA BK M 'J 'N IA
R AA'' N " K G BK EGDA CGDPGE G'' I CI G "J
EF A IA AP F G'' $IA M E DA IGJ G "J BA IA
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X K $IA 7 'N FE KG 'N F'J JA" CF A F'J D NI PGEE B"K J A M IA R AA' A A H J C F""K'J EIG'G AJ IA >FD " G'E G "J E CCAAJ G IA C G ' GM #CG "F'J F'J ' NI GM B"GGJ G "J C"F D IA DDAJ F A NG A 'DA' T FK G "J 'G PF I' IA ?ANA'CK F'J >FD " G' G "J 'G BA EACG'J G T FK

X $IA >FD " G'E JAE AJ IF IA P GCAAJ 'NE EIG "J BA J GPPAJ IF IA R AA' EIG "J BA AE G AJ ' 'FDA B ADF ' ' 9 'N"F'J/ I "A #CG "F'J ' AEPAC GM IA D ENG A 'DA' EIG "J BA G JA AJ BK F CG 'C GM IA 'GB " K G BA 'FDAJ BK IA R AA' GM 9 'N"F'J

T FK EIAJ IF EIA EIG "J APAF IA FBJ CF G' F'J IJ F IA CGDP"F ' E FNF 'E I D F'J I E M A'JE >A G "J IA' MG BAF G FCC EA IA M IA JAE GK IA CFEOA F'J IG"J G IGPAE G IA GM A A' F AE G F G' X ' P GGM GM I E MG NA 'N IA J EP"AFE A

%A AA' IAEA G A E IA #CG E A A F P AEA' J JAJ/ B IA JF'NA DGE G BA J AFJAJ FE X IF BG I E JAE D NI A A' F""K PFCO GNA IA EG FE 'JA CG"G GM CGDPGE G' G ' FP IA D EL AEE GM IA P AEA' E"F'JA F'J P NA IA GPA'"K * I ' EIG DA IAK G "J JADF'J GM IA R AA' IA JA" A K IGDA G NG A ' IA G AF"D/ EIA F"EG DFO 'N "OA AQ AE \ F'J IA R AA' IF 'N 'G H E CF EA G JA F ' IA G "J IF A IA MG F DG F" A'ADK A A FM A

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F M CA $ IA R AA' GM #CG E FE G BA FCC EAJ F' J
'G FCC EAJ FCQ AJ F' J 'G FCQ AJ AE G AJ F' J
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FNF 'E F'K 'G'A CG EA IF EIA IFJ IG NI G 'A L
F" UA IAD BK FJGP 'N F"" F G'CA F' J IA AB I CI
EIA IFJ G NI G I EG D CI PF 'E FE FBG G
BA A' ' 'P ACAE * IA' IA R AA' GM #CG E CFDA G
9 'N"F' J G "J IF A BAA' AFEK G AQ A T FK G
P GJ CA IA P GGME GM IA C DAE I I CI IA CIF NAJ
IA EIA D NI IF A E BD AJ IA "A A E F' J JAPGE L
G'E G IA A" A'H JNAE F' J IA 9 'N" EI !F " FDA' /
F' J IA' P B" EI 'N IA I IG CG'CAF"DA' '
G IAE F G' IF A JF AJ IA =F IG" C !G A E G ' A L
MA A ' E CI F CF EA % IAG AE GM IA N T E GM
EG A A N'E F' J IA ' A""AC F" A'HGKDA' GM IF' J" 'N
F J MM C " E BHAC F M C F""K MG BFJA EG E DP"A F P GL
CAAJ 'N

* IA' CFDA G IA PG ' EIA CG "J 'G DFOA P
IA D 'J FM A 'F"" IA IA EIA EIAJ T FK G NG B'
I I E CIF NAE G ''G > E MG Q AE G'E IA' IAK
A A B G NI G -G'JG' EAADAJ G MG CA IA G EGDA
PGE A CG'C" E G' B EIA E NN"AJ FNF 'E IA 'ACAEL
E K GM JAC E G' #IA EF J F M E IF X IAK 'AAJAJ
'G PF C "F F'E A / IA 9F "" GM T FK EIG "J BA
CG' A' AJ G "AF A IA DF A G IA EA"M F' J IA G '
H JNDA' / XG' IAF 'N IA CF EA EIA G "J JG G
CF EA G BA JG'A IF EIG "J BA FN AAFB"A G IA IG'G
GM "D NI K 8GJ IA DF ' A'F'CA GM IA ''GCA' F' J
IA AP GGM GM IA N " K

CI PI FEAE G "J IF A F'E A AJ 'G NGGJ P L
PGEA/ EIA G "J IF A EF EM AJ T FK IF ' 'G NGGJ
FE G BA A(PAC AJ M GD IA F' J IF A J A' I D
MFE A IF'' A A ' G F CGDP GD EA % E JJA'"K
I "A EIA FE IAE F 'N IF F'E A G N A F

I EPA F' G 'J IA =G IF IA + OA GM G MG"O 5
FE G DF K IA R AA' GM #CG E * IF DAF' TOU
I I CI PF K G N 'F AJ \ IA IG IA IA')C GBA
IA IK GM \ FE F"" GBEC A G IA / B FE F
EIF P A A"F G' IF G IA E CG "J ECIADA BAE JAE
IA EA"M $IA JF'NA E I CI EIA IFJ MAF AJ M GD IA
R AA' GM #CG E P AEA'CA ' 9'N"F'J IFJ E F AJ G
GM IA N G 'J F IA A K MAA F'J F G'CA G' IA 'L
E F' EIA CF'CA""AJ IA VG O =GDD EE G' AE DAJ IA
CF EA ' G IA G ' IF'JE F'J E DDG'AJ F"" PF AE G
-G'JG' IA A IA CG'C" E G' CG "J BA IAF J ' IA
P AEA'CA # EEA(D NI ADF ' IA A IA FE/ G MG"O
D NI EA IA GPPG ' K G E AK IA MG M CF G'E
F %A CO/ #FJ"A TF "F'J F'J >A AE A A G JA AJ
BFCO G IA DDAJ F A"K IF X EIA D NI BA BA A 'L
MG DAJ ' CA F ' DF A E $IA R AA' GM #CG E =GDL
D EE G'A E EIA FE PF C "F "K F'(G E EIG "J 'G
BA F"F DA f #IA EF J IF EIA E "" JAE AJ G'"K G
J ECG A IA AFE AE DAF'E MG IA E E A E AE G' f
9 JA' "K 9" UFBA I E M E DP "EA FE G J IA EA"M
FE FP J"K FE PGEE B"A GM F N AE IG P GD EAJ G BA
EG G B"AEGDA M BAMG A EIA IFJ BAA' I AA DG' IE
' IA CG ' K EIA IFJ A' F'N"AJ IA P AD A 'GB"ADF'
GM 9'N"F'J ' IA DAEIAE IF D NI 'G BA A(PAC AJ
' IA M A Y DG'N IGEA G IGD IA E F A GM
I 'NE FE O'G ' IA A(PAC F G' F I E DGDA' FE
GM EGDA FP J CGDP GD EA BK I CI IA R AA' GM
#CG E G "J BA D DAJ F A"K AP"FCAJ $IA N AF GBHAC
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' C' TO#) C GBA

IFJ GMMA AJ G CG 'EA' ' G IA AE FB" EIDA' ' ' #CG "F 'J GM IA 'N" CF' ' A" N G' ' $I E G EGDA I 'N" OA' G "J BA P GBFB"K IA CI AM CG 'J G' 'E E AJ G' / F 'J '"AEE IA 8 AF ! G A E EIG AJ DG A ' A AE ' ' IA IF' IAK IFJ I IA G J EP"FKAJ IA UAF" MG =F IG" C ED FE MAF AJ G "J N A FK 'JA IA F" @ F 'CA CF AJ G '"K MG IA F"" F 'CA I #CG "F 'J F 'J FE AFJK G "A A" N G' ' FOA E CIF 'CA #PF ' IFJ BAA' EG MF A' A"K E "A' ' G F JE IA F 'J FCC JA' ' IFJ "AJ IA G BA" A A IF EIA FE DG A 'AN"AC AJ IF' EIA FC F""K FE ' PFEE G 'F A "A A I CI EIA IFJ A' G IA #PF' EI T ' E A ' ' -G 'JG' IFJ BAA' "AM F DG' I 'F 'E A AJ $IA OAK GM IA C PIA IFJ BAA' "GE F 'J IA "A A CR "J 'G BA AFJ $IA CIB EIGP GM 8"FENG F ' ! F E G"J +G' @ F 'C E JA "F F IF EIA IFJ BAA' CG 'E F' ' EG MF ' ' IA IGPA IF IA 7 'N GM #PF ' G "J FOA IA PF M #PF ' MF "AJ IA EIA G "J K A"J F 'J IA =F IG" CE GM 9 'N"F 'J F 'J #CG "F 'J G "J IA' CAFEA G E NN"A

TF K # F EG MF IFJ BAA' IG ' A AE G ! I " P >A O 'A IA G BA F BFJ GDF / EIA FE CG' 'AC AJ C"GEA"K I @ F 'CA F 'J IA IFJ 'G PG"

f T 'JA'"F'@G AE ' IA'@ A 'CI' D L BFEEFJG ' ' 9 'N"F 'J FE E PA EAJAJ F ' I E 'C E E'BK' - F' T G IA' @b 'A"G' ' IGEA' JAEPF CIAE' I G ' EG' D CI' " NI ' G' ' IA' I E G K'GM' IA' CGD 'N' KAF E' $IA' CIB EIGP' GM' 8"FENG ' T F K E' T ' E A ' ' ' ! F E' IFJ' F'CG 'L A EF G' ' I' I D' BAMG A' IA'E F AJ ' F 'J' FE' IG M AJ' BK' IAF 'N' - F' T G IA' EFK' IF ' IA/ ' A 'JAJ' G' FJ EA' IA' R AA' ' BM' #CG E' G' N A' FK' FBG ' A" N G' ' $IA' G JE' I CI' - F' T G IA' @b 'A"G' ' EAJ ' FE' APG AJ' ' ' #PF' EI' BK' "F F' G' ! I " P ' G A' IAEA' \ $'#A[G ' 9 DBF HFJG ' KG' GK' h' AE J ' A' ' "F' = G A' JA' 'N"F A F' K' h' EA ' h' "F' ? AK ' F' AE F' FDF' / K' PF F' Q A' E E' CGEFE' FKF ' ' I A' ' h' "F' WAA ' JABA E' JA' FCG ' EAL HF "F' Q A' 'G' AE b' F' ' J F' CGDG' IFE F' FQ ' E 'G' Q A' EA' JA(A' ""A F ' F"' EFBG ' JA' E E' FEEF""GE ' PG Q A' JAE F' DF 'A F' A""F' EA F' ? AK ' F' GBAL JAC JF' K' Q A JF' ' ' M ' ' J CA' A"' GB EPG' Q A' C"F FDA ' A' "A' J (b' Q A' I C AEA' GMM C G' PF F' Q A' EA' FCGD DG ' JFEA' A ' ' "G' JA' "F' A" N ' ' K' A ' ' GJG' "G' JAD FE' CG ' ' E E' FEEF""GE . ' ' ') C GBA ' HG ' $H%+ , 9$' G" '

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v A "GG IA JA" 'Q/ A'A AE F'J M EIA F'J IGK G "J
AGD' " IADEA" AE G #PF' EI J AA G' I E EC P"AE
> NI PGEE B"K BA G A CGDA . 'CA F ' KA IGP 'N
IF D NI MAA EG "F F G A G =FK FE ! I " PPE
EAC A F K f P"AFJ MG IA
X $IA R AA' GM #CG E IA F""G AJ IFJ DFJA F MA
D E FOAE ' IA " MA ' 'G G EA F IF JA G J MG
IAD X *G "J AQ A EGDA EO I G B 'N I E
TFaAE K G IG"J G F IF'J G IA /' B IA FE F N AF
P 'CA/ F'J ' IA EA CA GM 8GJ F'J CG'E JA 'N IA
P AEA' CG'J G' GM IA G "J I E TFHAE K D NI G A L
"GGO IA MF " E F'J FCCAP IA FE EG DJ f
* IF IF CG'J G' GM " A G "J FE I IA
P AEA' FEPAC GM IA N AF E NN"A BA AA' !GPA K F'J
! G AE F' ED F'J IA IAF 'N GM P' IA 9 'N" EI
C E E "" BA JAEC BAJ ' IA MG""G 'N CIFP A

' 'Q A'FKF'F'JFJG'_ ZMG AKZ> MG TFHAE FJ P AJA PFEF "F K G ' "F
A' F"N 'FE GGEFE A' A" P GN AEG JA PG '"F B A'F P AE E A' ' EA C G
E ' K JF Z /F ' 8]FK '$' '-9$' JA' # GE K' B A' JA "FE DF A FE Q A
' IGK EA F F' A' A" D 'JG' # '
f 'Q A P AJA A'A 'F"N 'F F MA TFHAE FJ AE =F " CG K DFN'F' DG
AE G P ' IFCA ' EF" ']' E ' TFHAE FJ ! 'C PA ' mC \
h FK JF "F 'F A AE Q A PF AECA Q A E

=> !$9?' ,

' ' ?GDF'' PGA' JA'G 'CAJ' IA' EA CA' GM
' $$ IA' 8GJE' FE' F' DF" N'F' ' F'J' FCC EAJ' E PA E L
G' ' IA' JAEA AJ' AP GFCI' GM' A" N G'' FE' G'' IA' A A'
GM' PFEE 'N' F FK' $IA' C AAJE' GM' IA' F'C A' ' 'F G'E'
A A' IA' A(P AEE G'' GM' IA ' IG NI E' PG'' IADEA" AE'
F'J' PG'' IA' G "J' '' I CI' IAK'" AJ ' 9'CGDPFEEAJ'
I '' F'J' IG ' BK' ' E B"A' MG CAE' 'G ' BA'AM CA' '
F'J' " MA N 'N' 'G ' A B"A' '' JAE C A'AEE' IAK'
EF ' '' F"" GM' IAD' '' E 'EI 'A' F'J' E G D' '' P"A' K'
F'J' MFD 'A' '' IAF" I' F'J' J EAFEA' IA' G O' GM' BA 'NE'
IGEA' A' K' G "J' 'G ' PA D ' DF'O 'J' G' BA' CG' ' L
G E"K' IFPPK' $IAK' PF ' AJ' IA' DDG F" -G JE' GM' IA'
. ' A EA' FM A ' IA' DFNA' GM' IA' E G 'NAE ' F'J' G E ' GM'
IA ' G '' FCA' F'J' E G A' I' P FKA E' F'J' EFC M CAE'
G' P GP F A' IA ' HAF"G E' CFP CA' >A'CA' CFDA' IGEA'
AF" G '"ANA'JF K' AE' '' " E ' IA A' IA''GB"AE 'GM' IA'
DF JA'E' GM' 8 AACA' FE' GMMA AJ' FE' F' C D' G' IA' EP '
GM' IA' E G D' ' IA'CA' IGEA' DADG FB"A'" 'AE' GM' - C A E'
I CI' MG D' IA' AP FPI' GM' JK 'N' !FNF' ED
' 'A ' A F' FE' FBG ' G' JF '' =I E ' CFDA' B 'NL
'N' I' I D' IA' O'G JAJNA' IF ' 8GJ' FE' 'G ' F' JADG'' '
B ' F' BA 'N' GM' 'M ' A' NGGJ'AEE \ IF ' IA' EA CA' AL
Q AJ' GM' DF'O 'J' FE' 'G ' F' EA CA' GM' CA ADG'K'
B ' F' EA CA' GM' GBAJ A'CA' F'J' "G A' \ 'GBAJ A'CA' G

"F E GM DG F" K F'J "G A F'J CIF K G F JE DF' #
' IA 8GJ IGD =I E A AF"AJ 'A IA A' K FE
O'G ' 'G IF AJ 'G IA I 'N K DF"CA I CI
AQ AJ G BA FPPAFEAJ BK G" ' F K PA'F'CAE G
B"GGJK GMMA 'NE $IA 8GJ DFJA O'G ' ' IA 8GEPA
JADF'JAJ GM > E CI "J A' G'"K IA EFC MCA GM IA
G ' ""E F'J MG AFCI FC GM "G A F'J EA"M MG NA L
M "'AEE BAE G AJ G' IAD IA PAFCA GM D 'J I CI
PFEEAJ 'JA E F'J 'N
CI F C AAJ IFJ ADF'AJ FE CFDA M GD E
@G 'JA G "J IF G CIF'NAJ IA FEPAC GM IA AF I
G "J 'G IF A A(PA""AJ A "MG A " AE '"EA"M EIL
'AEE F'J IA CG'Q AE GM EA"M E IA J EC P" 'A I CI
M BA PA D AJ G CG'HAC A IA P PGEAE GM IA
"D NI K I DF' BA 'NE F A EA' ' G IA G "J G
"AF ' B G "J IF A BG 'J GNA IA ' G'A
CGDDG' P PGEA F" IA NGGJ F" IA NA'A G E F"
IA 'GB"A D 'JAJ IGEA P ACAP E F'J IGEA A(FDP"A
G "J IF A EA AJ FE F N JA G IA AFOA 'B A I A'
G ";' 'G IF A Q F A""AJ G A G JE F'J MG DE
G "J IF A FCCAP AJ IA NI AG E FC IA IA IA
JGA GM P AMA AJ !F " G =APIa E ' IF A" N G'
IF A G "J IF A 'G P"FCA MG "G A I CI E IF A E
GPPGE A FE E P 'C P"A/ 'G CG "J F'K C A" PFEE G'
IF AMG 'J E EF'C G' IA AAFCI'ADG G' FE AQ AJ
G AEG" A EA"M ' G CIF K
% IA "AE GM " MA FE JA" A AJ ' IA 8GEPA" A A
GG E DP"A F'J GG J M C " G E DP"A BACF EA DA'
CG "J " G I E AFJ "K EIFOA GMM IA JF O FEEGC F G'E
I CI IFJ N G ' F G 'J IA JAF GM IA "D NI K/
GG J M C " BACF EA IA PA MAC NGGJ'AEE I E FEE N'AJ
G > D FJD AJ 'G CGDP GD EA AM EAJ IA F" E C
CG' F'CAE I CI IFJ BAA' IA E BE A MG P FC CF"
P A K F'J A(FC AJ DPA F A"K IA EFC MCA I CI DF'

, A A M 'JE DGE J M"#C " \ IA EFC M CA GM I DEA"M $I E MG IA A" N G' GM =I E FE A(CIF'NAJ IA =I E F' A" N G' 8GJ NF A IA 8GEPA" IA MF IA GM " AE 'L A' AJ IAG"GNK/ F'J I "A IA J K GM GBAJ A'CA FE E "" P AFCIAJ F'J IA PA MAC NGGJ'AEE GM IA @F IA ' IAF A' IF NGGJ'AEE FE AEG" AJ ' G F DKE A K GM I CI I DF' ' A"" NA'CA FE 'G F""G AJ G FPP AIA'J IA DAF' 'N $IA I NIAE GBAJ A'CA FE CG'CA AJ G " A' ' IA P GMAEE G' GM PF C "F JGNDFE G' 'EC FB"A P GB"ADE GM DA FPIKE CE IA I NIAE J EGBAJ A'CA ' IA AM EF" G FJD P GPGE G'E I CI 'A IA IGEA IG J A IAD 'G IGEA G IGD IAK A A GMMA AJ P GMAEEAJ G BA FB"A G 'JA E F'J @G N A'AEE F'J DA CK A A P GC"F DAJ MG DG F" GMMA'CAE/ IA G E E 'E A A DFJA " NI GM ' CGDPF EG' I IA AEK I "A FE 'E E AJ IF IA 8GJ GM "G A A AF"AJ BK =I E G "J G A ' IA"" M A MG A A F'J MG A A IA EG "E GM IGEA IG IFJ IA"J G'N GP ' G'E G' IA CGDPGE G' GM > E 'F A IG A A P A F'J IG"K IA " AE F'J CG' A EF G' D NI BA

#G FNF ' 8GJ BACFDA FE DF' F'J FE DFJA ' DF' E DFNA F'J EG CFDA BFCO MA GC K F'J IF A F'J P JA F'J E"F'JA F'J C A" K EF'C G'AJ BK IA C AAJ I CI IFJ BAA' EA' ' G IA G "J G G A L CGDA IAD $IA A"" E GM " MA A A PG EG'AJ F'J IA I EA"M FE DFJA IA 'E DA' GM A " $IGEA IG A A DGE E 'CA A"K F'(G E G JG IA "" GM 8GJ BA" A AJ IF IAK CG "J BAE P"AFEA > D BK UAF" MG CG AC 'AEE GM JGC 'A $IGEA IG JAE AJ G'"K G P"AFEA IADEA" AE CG "J EF EMK IA CG'EC A'CAE F'J AF ' IA FPP"F EA GM IA NGJ"K BK P GC"F D 'N MG D "FE I CI CGE IAD 'G I 'N G DF ' F ' F'J BK CGDL PG 'J 'N MG IA 'J "NA'CA GM IA PFEE G'E BK IA A(FC 'AEE GM IA CA ADG' F" GBEA F'CA M 8GJ I DEA"M

IA E P ADA"K NGGJ EG IF AJ IAG"GN CF" D E FOAE IF 2
MG EPAC "F A A G F"G'A IA A FE 'G DA CK B
G'"K IA DGE A(AD K GM G A I CI) D' PGL
A'CA CG "J 'M" C IA' IF CG "J > E EA F' E JG B
H JNA FE >A H JNAJ ADP"GK IA EFDA BF"F'CA D F A
FE MF FE IA MAAB"A PFEE G'E CG "J A(A'J IA A(FDP"A
GM IA TFE A F'J DGE IF A IF >A DGE IF AJY
$IG NI F 'AJ FNF 'E IA CGDPF EG' BK IA @G 'JA
IAK EF ' ' IA I E G K GM IA =IGEA' !AGP"A IA PF A '
GM IA AF DA' I CI BAM AJ IA G EI PPA E GM
E F'NA NGJE +AF I G DA' G GDA' G IA BFBK F
IA B AFE / JAF I G IA BAFE GM IA M A"J FCC EAJ BK
JG"F G E CGDPF' G'EI P/ IA B CO O "'E MG IA FNG'K
GM M A IA IF G G AF IA M"AEI M GD IA BG'AE
X%K IA M E KA EIF"" O'G IAD $I G NI
=I E CFDA CIF K F'J DA CK @ GD IAG"GNK CFDA
E MA F'J IF AJ F'J IF MF F" GG GM B A 'AEE GM
I CI G -G J EPGOA I DEA"M ' IA DG 'M "P GPIACK
IF >A IFJ 'G CGDA G EA'J PAFCA G' AF I B F
E G J * IA' > E 'FDA F'J > E G JE IFJ BAA'
P AFCIAJ MG M M AA' CA' AE IA A A 'G'A MG 'J
IG CG "J G"A F A J MMA A'CA GM GP ' G' A' IA GPA FL
G' GM%FP ED G G' IA 'F A GM > E P AEA'CA ' IA
9 CIF E / 'G'A G F "AFE 'G'A B IA IF J IAF AJ
CI "J A' GM IA G "J' $IA DG A A" N G E F'K DF'
FE IA DG A AFNA FE IA G P F FK BK M A F'J
E G J F"" IGEA IGEA CG' C G'E J MMA AJ M GD I E
G '

$IA ?AMG DF G' FE IA BAN ' ' 'N GM F' 'A G JA
GM I 'NE $IA ACGN' G' IF MF"EA JGNDFE IFJ MG
DF'K CA' AE BAA' G"A' "K ' JAJ PG' DF'O 'J
\ F'J IA CG'EAQ A' A G" FNF 'E IA F IG K
I CI DPGEAJ IAD A A ' AF" K F P G AE FNF 'E
IA JGNDF C EKE AD F'J F' FJD EE G' GM IA NI E GM

, CG'EC A CA * IA' IA E B"A ' K GM IA =I CI FE
K G'CA B GOA' IA D " JA GM GP ' G'E I CI A'E AJ
CGDPA""AJ IA AC P GCF" G"A F G'/F'J IA A(PA A'CA
IF DA' PM J MMA A' PA E FE G'E CF'" A GNA IA I
D F" FJ F' FNA F'J D F" AEPAC IFE ' K E AJ
E"G "K IA N FEP GM IA IAG"GN CF" M 'NA E M GD IA
I DF' I GF $IA I' FNF ' BAN 'E G BA MA"
IG NI FE KA CF' IF J"K BA F G AJ IF ABN G'
JGAE 'G CG'E E ' F' FEEA' G P GPGE G'E/ IF IA
AEEA'CA GM E EGDA I 'N I CI E IA"J X F" OA BK
=F IG" C F'J 'N" CF' D ' F' - IA F' =F" ' E
#FDF F' G `A

VA I E IA N AF AE GM F" IA CG'EAQ A'CAE I CI
M"G AJ M GD IA ?AMG DF G' FE IA M IAE M GD IA
D 'JE GM IA ?AMG DA E IADEA" AE F'J IA A A MA
FDG'N IAD IG G "J 'G IF A BAA' "G J ' JAP ACF L
'N EG 'JAE AJ F CF FE GPIA $IA M E F'J N AF AE
GM IAD CG' A' AJ IADEA" AE CI AM"K I 'ANF G' \
P G AE 'N FNF 'E IA " AE I I CI IA =I CI GM
?GDA FE CIGO 'N IAD % FE IA E NN"A JAAPA'AJ
IA M A K ADPA E I CI JA A"GPAJ CG "J 'G AE "
IAK IFJ P GJ CAJ PGE A JGC 'AE I CI IAK CG "J
'M" C F IA E G J E PG ' FE ADG EA"AEE"K FE IA
"F A K F' E $IA N JF'CA GM IA N AF DG ADA' FE
E'F CIAJ M GD IA CG' G" GM AFEG' G BA DFJA G A G
=F" ' ED/ F'J =F" ' ED CG "J IF A IFJ IA
G "J 'JA E MAA G "J IF A BAA' FE DA C "AEE FE
IA 'Q E G' EA"M $IA > N A'G E F'J IA ! F'E
IA % B"A ' G'A IF'J IA E G J ' IA G IA A A
AFJK G DFOA F I' E AA" F'J M A FNF 'E F"
I CI 9 GPA MG A' CA' AE IFJ IA"J EFC AJ @ K
A'CG ' A AJ M K MF'F C ED MF'F C ED \ F'J IA A A
=F" ' E EP PA'A F AJ IA =I E F' G "J FE
J JAJ ' G G F D AE IG FBIG AJ AFCI G IA I

F B A 'AEE A(CAAJ 'N IA DGE DF" N' K GM DA A 2
I DF' IF AJ
$IA N AF A" N G E J FDF GM IA E (AA' I CA' K
FE P"FKAJ G BA AA' M A CG ' AE 9 'N"F' J #CG L
"F' J @ F' CA #PF ' F' J IA A IA "F' JE $IA DG A
DGJA F A NA' E GM - IA F' ED JA"FKAJ IA CG' M" C '
8A DF' K G F"F A NA' A F G' =G "J IA 9 'N" EI F EL
GC FCK IF A IFJ IA FK G "J IF A BAA' JA"FKAJ
' 9 'N"F' J F"EG B IAK P"FKAJ IA CF JE BFJ"K
' !F E IA FJ G'E " 'NA AJ GM IA F E BA AA'
=IF "AE F' J @ F' C E =F IA 'A JA TAJ C F' J IA
EG'E CF AJ "AEE MG A" N G' IF' MG @ F' CA F' J IAK
J AFJAJ #PF ' DG A IF' IAK IF AJ ! G AE F' ED
$IA R AA' DG IA F' J IA @ A' CI 'GB " K IFJ 'G
MG NG A' # R A' ' G IA "GE P G 'CAE ' F"K
G IA MG MA AJ E P ADFCK ' 9 GPA >A' K
IG FE EF J G "J IF A DFJA F' F"" F' CA I
IA +A " M G "J EACG' J IA ' A AE E GM @ F' CA
F' J I E JG IG FE GM IA EFDA FK GM I 'O 'N
G "J IF A N"FJ"K ACG' C "AJ =F IG" C F' J > N A'G
IF IA ' AJ CG ' K D NI BA IA E G'NA FNF 'E
IA MG A N' F"E @G IA > N A'G E FE E CI
'A IA >A' K 'G I E R AA' IFJ MA" A IA AEPAC
G ANF J $IA 7 'N IFJ CG' ADP"F AJ DG A IF'
G'CA F NA' A F" DFEEFC A GM IAD FE IA BAE DAF' E GM
EA " 'N F G B"AEGDA Q AE G' >A IFJ EPGOA' GM
G IA ! 'CA GM) F' NA FM A # R A' ' $IA + OA
GM " F FM A F JE F"OAJ G A I =F IA 'A F
%FKG' 'A % IA E G JE GM IA B F AE GM IA E BL
HAC E A A GG EAM " G BA EFC M CAJ ' IA 'CA F '
CG' J G' GM 9 GPA F' J >A' K IFJ A A F EACG' J
PG" CK ' AEA A GM I CI IA 7 'N GM F F A IA
=G" N' KE F' J IA 9 'N" EI F"" F' CA A A IA 'E L
DA' E =F IA 'A JA TAJ C IFJ JAC" 'AJ PG' IA
9- U ' '
,

C !', ' IG"A' G'BA'N JAJ'BK' " F' '"AFN A' FE'FM A F JE
' ' BA" A AJ' G'IF A'BAA''' CG'C" JAJ'BA AA''' @ F'CA' F'J'
#PF ''' F'J' IA' !GPA''MG ' IA'A(A D 'F G''' GM' IA'IA AL
CE/' B ' IA'>G EA'GM' -G F 'A'IFJ' FOA''' PG''' IADL
EA" AE' IG ' F IG K ' G'EPAFO'MG ' IA ' CG ' K/'
F'J' IA''' IA' JAF I'GM' IA' + OA'GM'8 EA'IFJ' A" A AJ'
IA' CG ' M GD' IA' IAF K'P AEE A'GM' I E' 'M" A'CA' IA'
AMMG E'GM' IA'NG A 'DA''' A A'J AC AJ'A A ' G' IA'J EL
CG A K'GM'EGDA' PGEE B"A'EKE AD' GM' G"A F G''' BK' I CI'
=F IG" C' F'J' ! G AE F''' D NI ' " A' GNA IA ' IG '
M"K 'N'F ' G'A' F'G IA E' I GF E ' AFCI' I'EGDA' O 'J'GM'
" BA K' G'P FK' G'8GJ' ''' IA ' G ''' MG D' F'J' FK' '
FE' 'G ' ''' DA CK ' MG ' =F IA 'A' IFJ' 'G'E CI' AFO'AEE'
' FE' 'G ' ''' "F NAD 'JAJ' EJGD ' MG ' IA ' 'JA E F'JL
'N' FE' DAF''' F'J' 'F G ' #IA' FE'ADPIF CF""K' F'
NGJ"AEE' GDF'/ EIA' CF AJ' 'G I 'N' MG ' A" N G''' A IA '
FK/ EIA' 'IA AJ' F'HAF"G EK' F'J' E EP C G''' GM' #PF ' '
F'J'EIA' EIAJ' G'OAAP' @ F'CA' 'J E BAJ'BK'C '" F
VA ' IF A A ' IA ' DG AE' IA ' PG" CK' G "J' IF A'
BAA''' F' IFPPK' G'A' IFJ' IA ' E BHAC E' F""G AJ' IA ' G 'P L
E A' ' ''' @ F'CA ' IG A A ' FE' ''' DGE ' G IA ' P"FCAE'
IA' PFEE G'E' GM' IA' D " JA' A A' GG' IG ' MG ' CG' G"'
$IA' ?AMG DF G''' IFJ' A' A AJ' IA A' ''' IA' MG D' GM'
=F" ' ED ' $IA' > N A'G ' FE' FE' 'DF'FNAFB"A' FE'
IA' =F IG" C' IFJ' IA' PG A ' FE' IA' IFJ' "" ' IA' G "J'
IF A' J FNGG'AJ' @ F'CA' FE' =F" ''' J FNGG'AJ' 8A'A F'
%G I' E JAE' A A' PGEEAEEAJ' I' F' 'J C A' IF AJ'
F'J' BG I' F" OA' DFJA' DPGEE B"A' IA' DF ' A'F'CA' GM' IA'
9J C E' I' I CI' M GD' DA' G' DA' IA' R AA' DG IA '
IFJ' F ADP AJ' G' PFC MK' IAD ' $IA' D ' E A ' CG "J'
'G ' P AFCI' ''' !F E ' IA' P AE ' CG "J' EFK' 'G' DFEE' F'
?GCIA""A/' F'J' I' IA' EDG IA AJ' M"FDAE' B E 'N' G '
' 'G ' IA A' 'G ' IA A' ''' "GCF" DFEEFC AE ' IAK' "FK' F CIL
'N' AFCI' G IA ' ''' E EPA'JAJ' IGE " K ' F'J' G'"K' F 'N'
IA ' GPPG ' K' G' E OA' EGDA' JAFJ"K' B"G

M A MG KAF E P ACF G E GBEA F'CA IA PAFCA GM # DBG EA FE B GOA' $IA JD F" F'J IA ! 'CA GM =G'Jb ' IA E DDA GM TOP A'CG ' A AJ EGDA E EPAC AJ AFCIA K FNF 'E IADEA" bE BK F' F ADP G EA UA F'J CF K G@ IA KG 'N 7 'N T EE 'N IA P PGEA IAK GGO IA M A"J F'J ' F BF "A 'JA IA F""E GM !F E IA G"J =G'E FB"A TG' DG A'CK FE O ""AJ EACG'J AF K MG""G AJ/ CG'CAEE G'E A A DFJA G' BG I E JAE F'J FNF ' IA A FE F IGPA GM PAFCA % CFDA G 'G I 'N ' IA E DDA GM TOU IA ! 'CA GM =G'Jb FE AE FB" EIAJ F %GCIA.A IA F" EG A A N' GM @ F'CA EG I GM IA -G A/ F'J I IA EFDA CD G E EKDPF IK BA AA' IA 7A MG DF G' F'J B CCF'AA 'N I CI IFJ EIG ' EA"M ' 9'N"F'J I E M"AA E A A G 'N IA GCAF' BK IA E JA GM >F O 'E F'J @ GB EIA

' @ F'CA EGDA M A CA CF FE GPIA FE E B"K FPP GFCI 'N $IA PAGP"A A A F MA b IAF IA NG A 'DA' P PGEA"AEE F'J 'CGDPA A' @F J MMA A' FE IA JA GM #PF ') IA 'F G'E A A J JAJ ' GP ' G' #PF ' IFJ 'G E CI J MM C " K $IA MF ' MGG P ' E GM ! G AE F' ED ' =FE "A IFJ BAA' AFE "K A FEAJ BK IA 'Q E G' $IA CG'Q AE GM 8 A'FJF F'J IA C EFJ 'N A' I E FED I CI IFJ FCCGDPF' AJ IFJ A AJ IA IA G ED F'J IA E PA E G' GM IA A"M I CA' K A " MA IFJ EP 'N P ' IA JAL CFK 'N DG'FE A AE $IA A" N G E G JA E ' IA NA' 'A MA G GM IA D JJ"A FNAE N IA "G 'E I EFCOC"G I J EC P" 'AJ IA ABA"" G E M"AEI I ECF' K J A F'J O'G AJ CG J F'J I IA A AJ F E A AE ANF 'AJ IA PG A G A IA ' A""AC E F'J CG'EC A'CAE GM DA' E IA ! F'E GM A 9'N"F'J

, ANF JAJ IA F "GCO F'J IA CI EG G IA MF'F CF =FE "F'E IGEA FCC EAJ 'M JA"E IG JA' AJ =I E E IGJ" P AEA'CA '' IA >G"K 9 CIF E FPPAF AJ FE CI "J A'' GM #F F' DG'E A E EA"M 'MAC AJ I' F "AP GEK GM EG "/ F'J A A K DF'' IG MAF AJ 8GJ EA I DEA"M I' IAF F'J'F D '"MA F'J E BE F'CA G GG G IA PG EG''M GD A A K CG 'A GM IA "F'J '' IA !A' 'E "F IA G O FE EGG''M ' EIAJ 9FCI P AE F'J DG'O FE F AFJK DFJA EG"J A GM IA 'Q L E G'\ IG DA CK A A'' FE 8GJ '' IA A GM !"D FE IG DA CK $IA C "PG A "A' F "" 'N IF'J 9 JA'CA FE 'G E M AJ GG C G E"K IA'' IA GBHAC FE G DFOA F C"AF'' E AAP GM F' 'AE GM PA E # EP C G'' FE CA F ' K MG 'G'A A E EPAC AJ IG A A 'G F "AFE '" OA F D/ F'J G BA " OA F D FE G BA F IA A C F IAF $IA FCO IA J 'NAG'' IA E FOA IA N BBA EGG'' P M AJ IA #PF' EI JGD ' G'E GM ! I " P '' # C "K FP"AE F'J -GDBF JK IA A FE A A'' "AEE J MM C " K '' IA 'A NIBG IGGJ GM IA !FPFCK F I G A F'J EC A'CA F'J TFCI F A"" F'' E F AEDF'EI P/ B IA A FE 'G A" N G''A'G NI G DFOA DA'' CF A IA IA IA C AAJ FE A G MF"EA %AKG'J IA "F' C =I E F' K FE FE KA O'G '' G'"K '' IA MG D '' I CI IFJ BAA'' P AFCIAJ BK IA +GD ' CF'E/ IA G'"K IA A CE IG IFJ EA MGG IA A A IA 9'N" EI P F AE IGEA D EE G'L F K A(P"G E A A 'CG'E JA FB"A

% IA A FE G'A P"FN A EPG '' IA #PF' EI 9DL P A\ G'A JFD' 'N A(CAP G'' G IA EP"A'J J'G IGJG(K GM IA E BHAC E GM IA =FE "F'' ! 'CA !G" CF 'L NA' K IFE FE KA CG' AJ 'G ECIADA GM NG A 'DA' I CI G'' IA IG"A G OE BA A IF'' DG'F CIK BK IA AJ F K E CCAEE G'' $G CIGGEA F "A BK IA FCC L JA'' GM B I' E ECF CA"K "AEE FBEP J '' IAG K IF'

IA DA IGJ EG D CI J C "AJ BK ! "F G GM EA"AC G' 2
BK "G KA IA 'ACAEE K GM E FB " K F'J IA J MM C " K
I IA G 'E DG ' AJ GM M 'J 'N F'K P 'C P"A GM
A"AC G' I CI "" G O "G'N IG CG'M E G' IF A
B"G NI FA' G FCQ AECA ' F' F F'NADA' MG I CI
AFEG' IFE 'G I 'N G NA / F'J G P G JA F ADAJK
MG IA D ECI AM G IA EA 'A FB"A BK A AC 'N F
EG A A N' KXGM "F E P ADA F" OA G A DG'F CI F'J
E BHAC F'J BK AE C 'N IA P "ANAE GM IA C G '
I ' E C CG'E G'F" D E
$IA A " GM IA IA AJ F K P 'C P"A FPPAF E ' E
DGE FNN F F AJ MG D IA' I G NI GKF" ' A DF L
FNAE G 'F G'E IF A BAA' AJ GNA IA I CI IF A
'G 'F F" CG' 'AC G' A IA ' "F'N FNA IFB G FJ L
G' / AEPAC F""K IA' IAK F A E F AJ F F N AF J EL
F'CA M GD G'A F'G IA F'J IA' F CG ' K BAMG A
'JAPA'JA' E NG A 'AJ BK IA JAP K GM F' F" A' EG AL
A N'
CI FE IA PGE G' GM IA JA'EA"K PAGP"AJ N G P
GM ! P 'CAE G' IA DG I GM IA ?I 'A 'JA IA
#PF' EI ! 'CA $IA G ' J OAE "G'N Ma A AQ F"E GM
IA P G JAE GM IA 9 GPAF' EG A A N'E IFJ BACGDA
A('C $IA "A F'J IA F IG K IFJ "FPEAJ G F
DG'F CI IG FE N'G F' GM IA "F'N FNA 'J MMAL
A' G IA C E GDE F'J I ' A AE E GM I E G '
EAPF F A M GD F'J PA IFPE GPPGE A G IA E FE
IA DG A 'ACAEEF K MG IAD G 'E E G' IA AE FBL
" EIAJ IA AJ F K P "ANAE "F NA IFPP "K MG IAD
IF' IGEA I CI BG 'J IA IF'JE GM F'K G IA
J OA G O 'N #G "G'N FE IAEA NI E ADF 'AJ 'L
G"F AJ IA A IA "F'JE IFJ N A' " "A CF EA G
IA 'A EG A A N' G CGDP"F ' GM IA "GKF" K $IA
PAGP"A IFJ MG 'J IA FJ F' FNA ' BA 'N F FCIAJ G
F PG A M DG'F CIK I CI P G AC AJ IAD M GD IA

JF'NA G E 'A NIBG E $IAK IFJ PF J MG IA CG' 'AC G' BK CG' B 'N M AA"K I IA AF" I F'J B"GGJ G IA N AF 'AEE GM IA ADP A GM I CI IAK A A Fa F

$IAK IFJ A'J AJ IG CGDP"F ' 'N GCCFE G'F" A(CAEEAE GM IA P A GNF A B IAK IFJ A'J AJ IAD FE PA D AJ BK IADEA" AE 'G FE A'C GFCIDA' E I CI IAK A A 'FB"A G AE E $IA GBEA F'CA GM IA CG G'F G' GF I FE 'G "AM G IA F IG K GM CG'EC A'CA F'J IA DG'F CI FE IG PG A G PA H A I DEA"M IG A A N AF D NI BA I E JAE A 9 A K P G 'CA IFJ E G ' H EJ C G' \ E EAPF F A NG A 'G BK IGD E D " F K E A'N I FE FJD ' EL A AJ/ A A K G ' IFJ E CIF A F'J E D ' C PF" CG'E G' F'J FNF 'E IA "" GM IA C UA'E "ANF""K JAC"F AJ 'G MG A N' NF EG D NI BA FJD AJ I ' IA F""E/ GPP AEE G' FE DPGEE B"A ' " IA C " BA AE I CI IA 7 'N IFJ E G ' G AEPAC A A M E ' FJAJ F'J C EIAJ

$I E IA ! G 'CAE A A I 'N BAKG'J F"" G IA PF E GM 9 GPA $IA N AF C AE A A IA DF E GM IA G "J ECGDDA CA\ IA FJA E CG A AJ IA EAFE F'J IA P GJ CA GM IA "GGDE FE A(PGEAJ MG EF"A ' A A K DF OA P"FCA ' =I E A'JGD $IA DA CIF' E A A E CCAAJ 'N G IA AF" I F'J IA DPG F'CA I CI A AMFJ 'N M GD 8A'GF F'J A' CA/F'J IA EG A A N'E IFJ BAA' "G'N CF AM " G CG'C " F A IA "GKF" K GM E BHAC E EG AD 'A' "K EAM " $IA B NIA E GM % NAE F'J ' L A P IFJ JG'A DG A MG =IF "AE ' ' I E "G'N N FPP"A I @ F'CA IF' IA D 'AE GM TA(CG F'J ! A / F'J ' " IA ! G 'CAE MA" IA M E EIGCO GM IA A" N G E CG' "E G' 'G Q AE G' IFJ EA' G G A C"G J IA P JA GM IA @"AD 'NE ' IA N"G AE GM IA DPA F" DFE A

* IA A IA D 'JE GM DA' A A ' E CI FC K

G =G ' ' A =F IG" CE IADEA" AE/ F'J G DF ' F '' IA =F IG" C =I CI '' F"" E J N' K'' F'J IG's /' B IAK J J''G JAE A G '' IADEA" AE F'J IA 'CG ' K BK Ig JAF I'G 'A("A GM IA 'DGE ''J E G E G ODA' %A AA'' I E PG ''GM A 'F'J IF 'GM IA' #PF' F J IA A FE F'' ACG'C "AFB"A J MMA A'CA $IA =F IG" C A" N G'' FE GM CG EA A 'PF FDG ' \ IF A A 'A"EA ' EIAJ G BA CF""AJ'/ B IAK BA" A AJ '' 'FE AE FBL "EIAJ A" N G'E F" FKE F A BA" A AJ ' BK DA'' IG IF A D CI' A"EA GM F EAM '" O 'J G I 'O FBG $G IA #PF' F J 'G'' IA G IA 'IF'J 'I E A" N G'' FE IA F"" '' F"" ' J J 'G 'CIF'NA I E 'F A \ BACF EA I E D 'J FE MFE A'AJ G'' IA IAG"GN CF" FEPAC 'GM ' >A FE C A"' EA'E F"' CG A G E 'EC P "G E '' I E I 'NA 'MG 'NG"J IA IFJ A(A D 'F AJ IG"A FCAE F'J 'F G'E '' IA A '* G "J ' %{ 'I E F F CA FE " OA IA F F CA GM IA EPA'J I M ')M IA CF AM '" JF "K CG'L CA' F G'' GM I E MFC " AE '' IA P E 'GM AF" I' BK 'J E G E DA IGJE IA FE 'CFPFB"A $IA JF "K GCC H&F G'' GM IA @"AD 'N FE I' I E "AJNA 'G 'I E MFC G K \ IA #PF' F J' PFEEAJ M GD' IA DFEE F'J IA CG'MAEE G'F" G IA I ' 'N M A"J' IA " KF J 'G 'IA M A"J' GM BF "A

$IA DGE' DPG F' ' GM IA 'F G'F" CIF FC A E CE A A CGDB 'AJ '' IA PA EG'' GM ! I " P ' $IA A'A NK' IA I NI DA "AJ' EP ' IA I DG ' IA GL DF'CA' IA JFEI' F'J PG A 'GM IA #PF' EI' CIF FC A 'IFJ 'G P"FCA '' I D ' >A FE E"G ' IAE F 'N 'F'J '' CGDDG'' DF A E 'CA F ' '' M 'G 'JAM C A' '' PA L EG'F" CG FNA 'IA FE IG 'D " F K FE A'G 'D " F K FDB G' ' % 'IA IFJ MA ' CAE' ' + 'N I E DF FNA ' I' TF K $ JG ' IA 'J "NAJ ' ' E EF J' '' EGDA MG B JJA'' P"AFE AE/ B ' IA IFJ 'G 'F F" JAE A MG ' E CI' I 'NE 'F'J M IA J J' 'G 'MG EFOA I E MF " E '' I E

FK IA FE MG EFOA' BK IAD >A FE DGJA F A ' 2
I E IFB E CF AM " B E 'AEE" OA F' J E F""K O 'J F' J
CG 'C " F G K >A CG "J 'JA 'G C C DE F 'CAE IF A
BAA' F N AF DF '/ B I G IA GPPG ' AE IA
' NI IF A PFEEAJ D E A FDG 'N EG A A N 'E FE CG 'L
E JA FB"K BA A IF' IA F A FNA GM IAD IA D NI
IF A ACA AJ C AJ MG DF 'K 'ANF A AE F 'J
F CG 'EC A' G E FPP" CF G' G IA CGDDG' J AE GM I E
GMM CA >A FE G 'A GM IGEA " D AJ B 'G "" DAF' 'N
DA' G IGD A" N G' M ' EIAE E F""K F IAF" IK
P 'C P"A GM FC G' F 'J IG F A AFJK F 'J AFNA G
E BD G E F IG K ' IA 'MG 'F A CG 'H 'CL
A F I CI IA FE EA G AN' IF G NI G IF A
N JAJ I D ' G NGGJ BACFDA IA EG CA GM IGEA
FC G 'E I CI IF A DFJA I E 'FDA 'MFDG E * I
'G B GFJ ' A"" NA 'CA G AE G CG AC I E E PA E G 'E
IA NF A P GD 'A 'CA " OA IA AE G M I E CG ' KDA' G
IGEA PF C "F MAF AE GM I E C AAJ I CI CG "J BA
GM EDF""AE P FC CF" F" A G I D >A EF ' I E
PGE G' F 'J ' I E CG' C G 'E F CF"" M GD ! G JA 'CA
G AE G A I G NI 9 GPA IA EIFO 'N MFB C GM IA
=I CI F 'J IA " AJ G EIG IF IA DGE C A" C EA
I CI CF' FMM" C IA G "J E IA K F' 'K GM N 'G F'
CG 'EC A' G E 'AEE F 'J IF IA A E 'G C DA GG JF O
MG F JA G AA G PA PA F A DJA IA EAAD 'N EF 'C G'
GM I E C AAJ
=IF "AE ' IGD % N 'J F' 8A DF' F 'J
#PF' EI B"GGJ A A D (AJ ' AQ F" P GPG G 'E FE
FE D CI B GFJA ' I E EKDPF I AE IF' ! I " P FE IA
FE E PA G G I D ' HP A""AC >A GG IFJ IF AJ
IA AEK B FE 9DPA G GM 8A DF 'K IA IFJ BAA' MG CAJ
G BAF I > E AJ C MG IA E PP AEE G' GM IA
'A GP ' G 'E ' IA A IA "F 'JE FE FE C A" FE IA
DGE DPFEE G 'AJ UAF"G CG "J JAE A F 'J F DAE F 'J

' C"' P"FCAE IA PA EAC G' IFJ IAA FE EF'N 'F K FE '
#PF ' B F E" D AJ A A K IA A BK IA ' "" 'N
' 'AEE GM IA "GCF" DFN E F AE G E PPG IA B EIGPE/ '
EGDA GM IA # F AE F E 'A A A 'MG CAJ F F"" F 'J
A A K IA A IA 9DPA G E J MM C " AE I @ F 'CA EGG'
CGDPA""AJ I D G `A J GP $IA F G " AJ I D
$IA PAFCA GM =FDB FK MG 'J ! I " P G' IA I G'A
AFJK G FOA FJ F' FNA GM IA "A E A I CI F "FE IFJ
F AJ =IF "AE ' I E JK 'N 'E C G'E CGDDA'JAJ
G I E EG' IGEA J AE I CI IA IFJ I DEA"M 'AN"AC AJ
>A J AC AJ I D G P F FK IA FCC EAJ I 'N G
AB "J IA >G EA GM IA -G J I CI " OA F'G IA
+F J IA FE I DEA"M 'M G F EA ! I " P ACA AJ
IA DAEEFNA FE F J 'A CGDDF'J * IA' IA 9DPA G
J AJ IA FE F % EEA"E >A IFJ A' IG EF'J #PF' EI
GGPE I I D F AFJK DFJA 'E DA' MG IA
G O >A EA I DEA"M F G'CA G AE FB" EI DG A
B EIGPE ' IA ! G 'CAE I "F NA 'Q E G F"
PG A E F E 'G G BA IA MF " GM IA EG A A N'
M IA B "" GM EP F" IAF" I FE 'G FE C"AF' ' I E
'G IA ' JGD ' G'E FE ' FNG ' F'J =FE "A
% AFCI KAF GM JA"FK IFJ DFJA IA P GB"AD DG A
J MM C " GM EG" G' ! G AE F' ED I "A "AM IA
I NIA C"FEEAE ' G CIAJ IFJ EP AFJ " OA F CG' FN G'
FDG'N IA CGDDG'E $IA CG'N ANF G'E GM F EF'E '
A A K N AF G ' F'J EAFPG ' DBA AJ IA A'E GM
IG EF'JE $ A DADBA E GM IAD A A IA A K M"G A
GM IA P G 'C F" 'J E K/ F'J IA AJ C E CG' ADP"F AJ
IA A(A D 'F G' BK D " F K MG CA FC 'N FE IA
'CG' G""AJ 'E DA' GM DP G EAJ ""ANF" B 'F"E
$IA G J 'F K"GCF" CG E A A G BA E PA EAJAJ BK DA A
DF F" "F /' F'J IA A IA "F'J 'GB"AE J J' 'G CIGGEA
G A'JA IADEA" AE BG 'J IF'J F J MGG G #PF' EI
JAEPG ED $IA CG'E G'F" NI E G'CA E EPA'JAJ

MG IA EP F P NF G' D NI BA "GE MG A A / F'J IG P GMAEE 'N F'K #o DPF IK I IA AEK I IA DGE AFNA JAC"F F G' IF IAK JAE AJ FE F JA' "K FE ! I " P IA AAE FB" EI DA' GM G IGJG(K IAK AM EAJ G F""G IA "GCF G' GM MG A N' NF EG'E FDG'N IAD $ IAK C"F DAJ IA NI G JAF I IA G 'PAGP"A BK IA) " "F E/ F'J ! I " P FM A F B E GM PFEE G' IFJ BAA' CGDPA""AJ G K A"J $ IA #PF' EI GGPE A A EA' IGDA F'J IA 7 'N "AF 'N I E E E A IA + CIAEE GM !F DF G JG IA BAE IG IAD A 'AJ G TFJ J G B JA I E DA #A A' KAF E PFEEAJ BAMG A F' GPPG ' K F AJ G AGPA' IA Q AE G' $ IA 9ANA' TF NF A FEE E AJ BK IA MF IM D ' E A IA % EIGP GM FE "FBG AJ FEE J L G E"K G JG IA B G IA E P"AFE A G IE F'J 'N IA GPPGE G' EIA MG 'J 'E DA' E DG A G "AEE "" 'N G A'MG CA IA AJ C E \ EGDA EIF 'N ! I " P E B NG K EGDA F'(G E G M 'J MF G ' I E AKAE TA' CFPFB"A GM N AF F'J P G"G'NAJ AMMG E GM AE E F'CA F A E F""K E"G G CGDDA'CA E NN"AE GM I CI IAK BA A IF' F'K G'A MG AEAA IA P GBFB"A CG'EAQ A'CAE VAF FM A KAF EGDA I 'J AJE GM PGG DA' A A FCOAJ F'J IF'NAJ F'J B ' B 'G B"AEE 'N MG""G AJ F'J IA A J J 'G FBF A $ IA DGJA F A =F IG" CE IGEA I DF' K IFJ 'G BAA' A('N EIAJ BK IA C AAJ BACFDA - IA F'E ' IA ACG M GD C A" AE I CI IAK A A 'FB"A G P A A' / F'J - I MF' ED MFCA G MFCA I E MA GC G E A'ADK JA A"GPAJ Q CO"K ' G =F" 'ED $ IA I ' AJ G ODA' A IA PFEEAJ ' G @ F'CA G IA > N AQQ B G IA E G GGO EA CA I IA P F AA E G D N F AJ BK IG EF'JE ' G 9 'N"F'J I IA MFD " AE CF K 'N I IAD IA F E F'J 'J E AE @FC G AE A A C"GEAJ FJA FE PF F"KEAJ G FE F'EMA AJ M GD IA #CIA"J G IA

$IFDAE $IA EP GM J EFM"MAC G' A' JAAPA F' J JAAPA ' G IA PAGP"A F' J IA IF J IAFJAJ F' J 'L J MMA A' DF' GM B E 'AEE FE CG' A AJ BK I E "GEEAE ' G F PF G $G IA PA G'E MG IA DGJA F G' GM IA AJ C E IA + CIAEE GM !F DF CG "J F'E A G'"K IF EIA IFJ 'G PG A G IF EIA D E CG'E " IA B G IA / F' J IA 'GB"ADA' IG IFJ M E ' A PGEAJ G P A A' IA CG' ' F'CA GM IA #PF' F JE FDG'N IAD BANF' G CG'E " IF M IA E APE D NI BA PGEE B"A @G ADGE FDG'N IAEA A A IA # FJ IG"JA E GM IA J MMA A' ! G 'CAE * "" FD)M FEEF ! 'CA GM) F'NA =G ' 9NDG' IA' IA G GM 8 F A" 'AE F' J # R A' ' TG' N'K >G ' F' J IA TF Q E %A NIA'/ IA ! 'CA GM) F'NA FE E "" 'JA I K F' J CFPFB"A GM 'A DP AEE G'E I E M A' JE A A D JJ"A FNAJ DA' '"OA"K G CIF'NA IA C AAJ B ' "" 'N G E BK F' J EAA IA MA""G CG ' KDA' D JA AJ #GDA I 'N IAK A A FB"A G AMMAC MG F DA BK DPAJ 'N IA FC G' GM IA G ' CG E/ B "GCF" ADAJ AE A A PF F" F' J J MM C " G CF K G $IA FN A PG A E GM IA B EIGPE E PA EAJAJ IA "F E GM IA # F AE F' J IA "F E IADEA" AE IFJ BAA' MG DAJ ' =F IQM C DAE IA' IA AEK FE ' A EF""K ANF JAJ FE F EA G E GMMA'CA/ IA # FJ IG"JA E CG "J 'G F" A IAD IG GPA' A G" FNF 'E IA #G A A N' I CI FE KA IAK IFJ 'G CG' ADP"F AJ $IAK CG "J B EG" C ! I " P IA AMG A G DGJA F A IA G"A'CA GM IA FJD ' E F G' F' J E EPA'J IA AJ C E "" D "JA DAFE AE IFJ BAA' AJ

CI FJ CA G IA 7 'N GM #PF ' FE " OA IA CF 'F" PG" CK GM IA CI "J A' GM E FA" ' DFO 'N A DE I IA JG"F A E GM =F' FF' * IF G I D A A IA " AE F' J ' J E AE GM I E E BHAC E CGDPF AJ G IA DDG F" EG "EY %A A IF IA - G =G ' AE A A

AE G AJ G IA GCAF' M GD I CI IAK IFJ BAA' A + CG A AJ BA A IF A A K DF' GDF' F' J CI "J EIG "J PA EI M GD GMM IA "F' J IF' IF IA EIG "J FCO' G L "AJNA G A' J A FE I E E BHAC E IA A' AD AE GM 8GJ $G I D IA DF' IG A' JAF G AJ G P G AC F IA A C FE 'G "AEE 'MFDG E IF' IA IA A C I DEA"M =GDL PF AJ I IA EA CA GM IA "D NI K IA NI E GM IA ! G 'CAE A A DA A MP DE GM DF' E JA E 'N/ F' J I F P PGEA IF J FE IA M" ' K PF ADA' GM I E G ' TFJ J IA ADPG EAJ F' J NF A JG B M "F' E A E F' J DF OAJ IA 'FDA GM A A K DF' IG PA G'AJ G I D MG DGJA F G' IF IA D NI DFOA F' A(FDP"A GM I D IA' IA DA MG EIG "J CGDA

"A' N I J A' DFJ BK IA G ' E MMA 'NE A'L CG FNAJ BK IA F JA GM IA "AFJA E F' J BK IA FPPF A' FBEA' CA GM F' K MG CA I CI CG "J CG' G" IAD IA CGDDG' E GM IA A IA "F' JE GEA ' ABA"" G' EFCOAJ CI CIAE F' J CF IAJ F"E B ' DG' FE A AE O ""AJ DG' OE IA' IAK CFDA ' IA FK EA P IA G ' EA CAE F' J B GOA ' G IA E F" A(CAEEAE I CI IA =F" ' E E G' IA E JA CG' E JA AJ F"EG E P ADA"K DA G G E

$IA # FJ IG"JA E P IAD JG ' A A K IA A EAJ IA NF"" G E M AA"K F' J AE G AJ G JA / B IA I 'N FE JG' A IA PAFCA IFJ BAA' B GOA' F' J ! I " P IFJ IA P"AF F "FE MG I CI IA IFJ"G' N F AJ \ IF I E E BL HAC E A A ' 'E AC G' F' J AQ AJ IA P AEA' CA GM I E G ' GGPE G B 'N IAD G GBAJ A' CA ' F DK EDF"" ' ' DBA B PA MAC ' AQ PDA' F' J J EC L P" 'A FE F EAJ M GD FDG' N IA CIG CAE GGPE I CI #PF ' F' J F"K CG "J P G JA $IA FB"AE " 'N EG"J A FE CIGEA' G CGDDF' J IAD $IA + . CIAEE GM ! F DF FE E PA EAJAJ F' J IA D " F K NG A 'DA' GM IA A IA "F' JE FE A' E AJ G @A J 'F' J GM $G"AJG + OA GM " F

'v $IA 'FDA GM " F IFE JAECA'JAJ I G NI ! G AE F' FJ G' ' CG"G E B"FCO FE M IA IFJ BAA' J PPAJ ' IA P AI GM=GCK E ?A" N G E I E G K E PF F" ' E A J C E $IA A(A D 'F G E GM IA =F'FF' AE F A A' EI 'AJ FDG'N IA EF ' E F'J IFJ IA =F IG" CE CGDA GMM C G G E IA ! OA GM " F G "J IF A BAA' F EACG'J`GEI F >A FE 'G ' E (K KAF E G"J > E" MA M GD I E BGKIGGJ IFJ BAA' EPA' ' IA M A"J ' F'J IA PGEEAEEAJ F"" IA Q F" AE ' PA MAC G' I CI NG G IA DFO 'N GM F N AF CGDDF'JA F'J F N AF D " F K FJD ' E F G $IA G'A N JA GM I E" MA FE IA "F GM I E CG ' K >A FE IA EA F' GM IA "F F'J 'G E DFE A F'J IA FE EA' G I E 'A NG A 'DA' G A'MG CA GBAJ A'CA G F "A I CI IA I DEA"M GBAKAJ F'J I CI F"" E BHAC E GM IA #PF' EI = G ' A A BG 'J G GBAK > E ' A""AC FE GM IF E G 'N P FC CF" O 'J I CI FPP AIA'JE J E 'C "K IA I 'N G BA JG'A F'J EAE IG 'M" 'CI 'N IA FPP GP F A DAF'E G JG >A FE P G J B I IA P JA GM F #PF' F J \ F P JA ' I E FCA F'J ' I E CG ' K >A FE FDB L G E B FE 'G F' FDB G' I CI G CIAJ I E "GKF" K G C AAJ G O 'N ' I D IA #PF ' GM IA E (AA' I CA' K MG 'J E AE F'J DGE CGDP"A A AP AEA' F A =F A"AEE GM P"AFE A CF A"AEE GM I E "MA ADPA F A ' I E PA EG'F" IFB E IG PFEE G' IG DFN 'F G' I 'A AE GM E AA" F'J I F E P ADA CG' C G' IF IA J K GM E BHAC E FE G GBAK IGEA IG A A EA G A IAD \ E CI FE IA MFDG E G 'MFDG E + OA GM " F IA' ' ` 'A TOP ' IA EFDA DG' I IA' TF K # F FE EI P' -GCI"A A' IA EA G M GD F"K MG IA A IA "F'JE >A GGO I 7 D A' IG EF'J EG"J A E CGDP"A A ' IA AEEA' F"E GM F' F DK A A' G G IG EF'J CG AL EF'E IG A A 'JA 'D " F K J EC P" 'A >A PFEEAJ G A TG' =A' E I G NI #F GK % N 'JK F'J -G F 'A

' IA D JJ"A GM N E IA FE F $I G' ""A/ BAMG A (#AP ADBA IA IFJ A' A AJ % EEA"E

$IA ! 'CA GM) F'NA IG O'A IA DAF' 'N GM I E CGD 'N IFJ P G JAJ MG I E EFMA K F' J IFJ A AF AJ I I E MG B G IA E ' G 8A DF'K 9NDG' CG'L EC G E GM 'G C DA A(CAP 'GM IF 'N JAE AJ G EA A I E CG ' K ADF 'AJ I =G ' >G ' G ACA A IA 'A NG A 'G ' F MA AAOE IAK MG 'J IADEA" AE F L AE AJ F' J I IAD F'K 'GB"ADF' G NA' "ADF' IF " F E F D CG "J AFCI IG IFJ E N'AJ IA PA G'E G IA 7 'N ! GCAAJ 'N G B E 'AEE I CF"D EO "" IA + OA J E B AJ I E GGPE ' NF EG'E FDG'N IA G 'E * I F E D' F K CGDDF' J IA E EPA' JAJ IA "GCF" DFN E F AE F' J C"GEAJ IA "GCF" CG E $IA FJL D ' E F G' GM IA ! G 'CAE FE DFJA G A G F =G 'C " GM I CI IA FE I DEA"M P AE JA' F' J M GD I CI IA A FE 'G FPPAF" $ B 'F"E CGDD EE G'AJ BK I E BGJK A A A AC AJ F"" G A IA CG ' K F' J EG E M F' J E AFJK A A IA GPA F G'E IF ' I AA DG' IE A NI AA' I ' J AJ PA EG'E IFJ PA EIAJ F IA E FOA G G' IA ECFMMG"J

+AP AJ GM IA "AFJA E F' J E PAM AJ BK IAEA P GDP F' J J AFJM " DAFE AE IA PAGP"A DFJA " "A AE E F'CA/ F MA PF F" AMMG E A A 'E F' "K C EIAJ F' J IA G'A IGPA FE IA' ' IA ! 'CA GM) F'NA $IA ! 'CA FCCAP 'N " F E DAFE AE FE F' GPA' G"F G' GM IA CG'E G' IG J EC"F D 'N I E F""AN F'CA G ! I " P F G'CA JAC"F AJ F FNF 'E I E AP AEA' F A F E 'N DG'AK G' IA C AJ GM I E G '

-L # ' < &7 @ & 0 @ AJ %& (' # ' # & # ' &*0 ' ", # .'# '" '* &* ' & "@'*# ? .' (@ ' * .'# @ ' ,

G E' 'DFK'BA'PA D AJ'IG A A FE' F' MA""G F A""A G' F' PF F""A" GFJ' G' IF'O' I D'MG IA'" NI I' I CI' I E'PFNAE' 'A A 'MF " G'M ' EI' DA' IA'A A ' ' G' IAD

v AE F AE F' J NF IA 'N CG' B G'E IA A A IF AJ GM
=F IG" C K F' 'K GPA'AJ F P EA G I D F EAJ
G F D AE '8A DF'K F' J I "A IA I DEA"M P APF AJ
G C GEE IA TA EA I E B G IA =G ' -G E A' A AJ
@ AE"F' J @G 'A FE F M E MF G FB"A + AD
BA N IG FE EA BK " F G E GP -G E B" 'JA AJ
' G F PGE G' IA A A A'' #PF' EI GGPE CG "J 'G
EF A I D M GD J EFE A F' J JAMAF $IA PF G E G'
IA M E BF "A GM IA F F' J J ADBA N FE O""AJ
% IA B AM M"GGJ JA EGG' ABBAJ " F F AJ G'"K
G EA'J >G ' F' J 9NDG' G IA ECFM B"J F' J GGO
IA M A"J ' PA EG' =G ' -G E D " F K CIAE FE
BFJ"K M ' EIAJ F' J EGG' ADP K $IA 8A DF'E G "J
'G M NI IG PFK F' J -G E IFJ 'G DG'AK G PFK
IAD I E " F FJ F'CAJ PG' IAD IAK MA"" BFCO IG G JA G P PGEA "" IAK A' FPPAJ IADL
EA" AE ' F PA' 'E "F G' IA 9DE F' J IA A ' I AA
D EA FB"A IG E =G ' -G E EF I E A' A MG CA DG AJ
JG ' BK I E G ' CF' 'G' I CI IA #PF' F JE GGO F
IA M E EI G J G 'AJ F' J EDG IA AJ ' IA JAL
FK G IA D J $IA + OA E "GEE M' I E G ' APG GM
IA A'NFNADA' FE A FE B EA A' DA' $IA
FCCG ' DGE MF G FB"A G IA PF G E JGAE 'G F EA
F"EG A A NI K =G ' -G E I F MA E FNN"A E
E FD IA A F' J DFJA I E FK G I E B G IA MG
IGEA MG 'A EG ADA'JG E F CF FE GPIA FE 'G
MF G FB"A GDA' $IA 8A DF' # F AE F" AFJK " OAL
F D BACFDA M AAU 'N ' IA ' 'J M A A'CA TF(D " F'
MG BFJA) F'NA G "A K GGPE I ' IA 9DP A
) F'NA IG A A IFJ F PGE G' GM I E G ' ' FEEF
M GD I CI IA CG "J FC F I E G ' EO PG' I E G '

%F "A'GM'>A " NA '-AA' T FK' 3:' 510'
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AEG CAE >A P B" EIAJ F H E M CF G' GM I DEA"M G $
@ GPA /' %K "GF' F' J' DG NFNA' BK' IA' EF"A' GM' A A K'
FC A' I C" ' IA' CG "J' J EPGEA' GM' IA' FNF ' F EAJ' DG' AK'
A' G NI' G' DG A/' F' J' G' IA' T' I' GM') C GBA ' IA' "AJ' I K'
IG EF' J' DA' ' vKA' IA' TA EA' F' J' A' A AJ' % FBF'
#G' DF A E' E GGJ' G' ' IA' =G' 'A' ' ' IA' E DDA'
F' J' F D' ' I CI' MG""G AJ' TF K' # F E' M" NI ' G'
9' N"F' J' F' J' IAK' IFJ' CG' B AJ' 'G' " "A' G' 9" UFL
BA I E' ADBF FEEDA' ' M' IA' ! 'CA' GM') F' NA' MF AJ'
'G' BA A ' IF' ' =G ' ' -G E' IA' ?AMG DF G' ' ' FPPAF AJ
' G "J' BA' FDP"AJ' G ' ' ' IA' -G ' =G ' AE' F' J' IA'
C"GEA' 'A NIBG IGGJ' GM' " F' I' F' C G G E' F DK' GM'
=F IG" C' MF' F CE' CG "J' 'G ' B ' FM AC ' CG' E JA FB"K' IA'
ADPA ' GM' IA ' G ' ' PAGP"A ' !A EG' F""K' 9" UFBA I' IFJ'
B ' " "A' EKDPF IK' I' IA' A IA "F' JA E' #IA' FE'
F' - IA F' ' F' J' IA' >A IA "F' JA E' A A' =F" ' E E
$IA' AM NAAE' CF EAJ' IA ' CG' ' F" G B"A' BG I' ' '
IADEA" AE' F' J' ' ' IA' FP J K' I' I CI' IAK' DFJA'
P GEA"K AE' $IA' - IA F' E' JA AE AJ' IA' =F" ' E E' FE'
B 'N 'N' F' AP GFCI' PG' ' IA' ?AMG DF G' ' $IA' =F IGL
" CE' A' CG FNAJ' IAD' BK' FMMAC 'N' G' DFOA' F' DF OAJ'
J E 'C G' ' BA AA' ' IA' G' MG DE' GM' IA AEK' $IAK'
F G JAJ' DAJJ" 'N' I' IA' =G' MAEE G' ' GM' NEB N'
"" IAK' IFJ' M E ' J EPGEAJ' GM' IA' DG A' JF' NA G E'
JGC 'AE' GM' 8A' A F/ F' J' IAK' JAE AJ' ' G' BA' 'JA L
E GGJ' IF ' A(CAP ' MG ' =F" ' ' F' J' =F" ' E' J EC P"AE' IA'
G 'JE' GM' 9 GPA' D NI ' BA' FD CFB"K' IAF"AJ
$I E' MAA" 'N' "FK' F ' IA' BG GD' GM' D CI' GM' 9" UFBA I E'
=I CI' PG" CK ' #G' "G' N' FE' IA' =I CI' GM' 9' N"F' J' FE'
'G ' 8A' A F' ' EIA' D NI ' IGPA' G' BA' "A ' F"G' A ' M' #CG L
"F' J' CG "J' BA' ACG A AJ' M GD' 8A' A F' IA' 7 'N' GM' #PF ' '
G "J' IF A' IA' "AEE' ADP F G' ' G' ' A MA A' ' ' BAIF"M' GM'
TF K' # F ' +A' # " F' I' A' A' IG' AE K' CG' M DAJ'
IA ' ' ' I E' DP AEE G' ' F ' 'N' IA ' G' "K' FNF 'E ' IGEA

/ C"' IG BK J 'N IA M IA G "J DFOA ACG'C"F G' HoN DPGEE B"A/ F'J EIA ' ' "E A'AJ I EAAD 'N EF EMFC G' G IA FCCG ' GM " F E E CCAEEAE * IA' 9NDG' FE A(AC AJ EIA A(P AEEAJ EGDA AN A IF IA IFJ'G BAA' IAF J' I E JAMA'CA/B EIA FJD AJ IF IA IFJ JAEA AJ I E MF A F'J EIA CGDP"F 'AJ GM IA ' AFEG'FB"A'AEE GM DF'O 'J IG IA' C DAE A A CGDD AJ C"FDG AJ MG IA P ' EIDA' F'J IA' IA P ' EIDA' CFDA CG "J G'"K CGDPFEE G'F A IA E MMA A E $IA DBFEEFJG FE F""G AJ G CA"AB F A IA BF "A GM `ADD 'NA' I I NI DFEE $A +A D F'J F N F'J MAE K I I E =F IG" C M A'JE 9" UFL BA I'EPAFO 'N GM IA FC G'EF J' IF IA + OA E C G K AD 'JAJ IA GM IF FE EF J GM F NA' "ADF' IG I I E EA F' FE EA PG' BK F JGUA' I A AE F'J O ""AJ G J EFB"AJ IAD F"" \ X)'A DF' I F IAFJ G' I E EIG "JA E FE G I F JGUA' IG #IA X FE JA" NI AJ F IA + OA E E CCAEE FE EIA FE I F'K NGGJ MG 'A I CI BAMA"" IA B G IA IA 7 'N GM #PF '

#GDA I 'N GM I E "F'N FNA FE PA IFPE F "AC AJ 9" UFBA I I IA R AA' GM #CG E PG' IA IF'JE CG "J 'G FMMG J G EKDPF I EA I ABA"E . 'MG L 'F A"K ABA"" G' F'J ! G AE F' ED ' F"" CG ' AE B

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$ A E'BA CGDA IF IA + OA GM " F'BF I N A' F'N AF G A I G D G IA ! G AE F' E F'J IF I E"F ' GM IAD G IA ' DBA GM 6444 'J MG 'HGK IA AGM IA DBFEEFJG GM #PF ' I CI "KA I ' DK -G J

!FNA E IG EA DFJA F'N AF 'BG'M A F'J EA 'G ' G IGNEIAFJE GM NGGJ C"F A G J 'O CGDA IG G "J F'J G GM BAA ' IA I CI ' F'J DK MA A' ' ' F'J J F'O' IA A/ IA I CI IA A FE'GM'DK' A NIBG E IF EF J A A PF FOA E GM IA MG ' CF G' BACF EA A' J F'O' GM IA 'A \ D , '& * ' ' '= 'E ' + N E <' / '

f+A' # " F G ! I " P N E '< \ ' '3+

IA G A A NG 'N IF'J 'IF'J F'J EIA FE F"OA #
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PF GM IA G E BHAC E A A J M 'N M IA F'J
M IA M GD IA G E F'J 'N N G 'J TG A F'J DG A
A A K JFK IAK A A EI M 'N IA 8A'A F' J AC G'/
IA G =G 'C FE F ' AJ F'J IA =F IG" C E BHAC E
IFJ BA A F'J BA A N G 'J MG CGDP"F ' 'N GM IA
"F E I CI MG BFJA IAD IA A(A C EA GM IA G
C AAJ/ IA' JGC 'AE AQ F""K IA A CF" M GD IA - L
IA F' PG ' GM A D NI BA F NI GPA'"K ' IA
CI CIAE $I E BA 'N MG A A ' MAF GM IA A(FDP"A
BA 'N 'AJ FNF 'E IA EA"M EIA J EC"F DAJ MG IA EA"M
F"" EKDPF IK I IA MG A N' ! G AE F' E #IA GE A'L
F G E"K C"F DAJ CGDD ' G' MG IA G 'N" CF' ED
I IA DKE C BGJK GM IA E B"A =I CI F'J JA # " F
CF NI F A A K GPPG ' K GM A'CG FN 'N IA I DG
FPP"F J 'N IA "GKF" K GM IA =F IG" C E BHAC E F'J
CG' FE 'N IA ADPA I IA F'F CI C" BA 'ED
GM IA IA A CE

 ' 'G CAFB"A PFEEFNA GCC E ''G'A
GM JA # " F E "A A E EIG 'N IG
MF '"AEE' A A F A IA =F IG" CE AF""K
 AA FNF 'E IA - IA F' F'J
 'N" CF' IAG K IF' FNF 'E IA
=F" ' E E FE =F" 'ED I CI
 FE DG"M 'N IA A' 'C FB"A F'J
EP" 'N =I E F' K ' G IA 7GDF
' ED GM$ A' 'F'J F MF' F C ED I CI
MG NI IA BF "A GM " BA K I F
EP I CI F D "JA C AAJ G "J
IF A MF "AJ G A GOA B I CI
 IA' IA C G K FE'NF 'AJ 'BACFDA
 EA"M F' K F' 'K 'G' DG A G"A FB"A
 IF' IF 'GM 7GDA EA"M
 $IGEA EF J JA # " F X IG CF""
 IADEA" AE GM IA A" N G P EE DF
NG G' 'C AFE 'N $IAK F A IA EFDA
FE =F" ' E E F'J IAK F A E K"AJ
! D F'E BACF EA IAK F""G ' G CA AL
DG' AE' G F'K MG DE EF A IGEA I CI
F A F IG EAJ BK IA BF A "A A GM
IA 8GEPA" $IAK "" 'G CGDA G
IA CID CIAE I CI F A EAJ BK IA
AE ' 'G "" IAK F""G IA 'D ' EL
A G AF F'K DF OAJ G EAPF F A
J AEE #GDA GM IAD IF A BAA'
FOA' P B IAK IF A 'G MAF GM
P EG' F'J GMMA IADEA" AE G F AE
GM IA 'G ' FCCG J
 X#G MF FE A CF' EAA IA DFHGL
K GM ! G AE F' E IA A BA" A A '
 =F" ' B IAK IG"J EG DF'K
GP ' G'E GNA IA IF 'CF' 'G A""
MG CA F ' IF IAK F A 'G CF'
 IAK'FN AA G' F'K PG ' 'FDG 'N IADL
EA" AE M IAK A A 'G 'B" 'J IAK
G "J EAA IA G ' MG""K $IA A

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2 C" #IA FE NG 'N G' P GN AEE F IA A' J GM IA E DDA
TOU) ' IA o I GM N E EIA CFDA JG ' M GD >FDP G' =G ' F' J EPA' ' F JFK F IA =IF A IG EA FE F N AE GM IA + OA GM G MG"O #IA A' I G NI IA E AA E FE E F" ' F' GPA' CF FNA IF IA PAGP"A D NI EAA IA #IA FE ACA AJ A A K IA A I IA PFEE G' F A A' I E FED I CI EIG AJ IF IA PG" CK IFJ A' JAF AJ IA PA DF' A' "K G IA PAGP"A +A # " F IG FCCGDL PF' AJ IA ADF OAJ G' IA P"AFE A I CI E CI F ECA' A D E N A IA #IA EF J IF IA E BHAC E "G AJ IA BACF EA I "A IA G IA 'F G' E GM 9 GPA A A AF 'N AFCI G IA ' P ACAE IAK F"G' A ' JA IA "A A A" 'N ' EFMA K ' JA IA G ' ' A F' J M N AA $G 8GJ EIA G AJ EIA EF J/ X FE IA DF A""G E G O GM > E IF' J * IA A IA C G J FE I COAE EIA E GPPAJ IA IG EAE E GGJ P F' J EPGOA G IGEA IG A A ' AF AE G IA G' A P"FCA JA # " F ADF OAJ F A' A FB"A "GGO 'N DF' P 'N I DEA"M CG' EP C G E"K

E F E EP C G' IF F PF K' ' IA =G 'C " G "J " OA G' I 'N IA R AA' ' G A ' G' IA ' A E/ IF 'EG F"" IA' ! G AE F' E' ' 9 'N"F' J' D NI ' BA' GM' G' A' D 'J M' IAK' A A' FN AAJ ' IAK' I 'O' IAK' G "J' BA' BA A ' FB"A' G' DF ' F ' ' IADEA" AE ' F' J' IAK' G "J' IA ' ' A' JAF G ' G' N A' IA' EFDA' CGDP"A(G' ' G' IA AEK'A A KL IA A' A"EA ' ' IG NI ' ' G "J' BA' F' EA G E' D EMG 'A' M' IAEA' PA EG' E' A A' G' E CCAAJ ' F' J ' IA AMG A' GGO' GCCFE G' ' G' F ' ' IA' R AA' ' GM' IA' JF' NA ' M GD' IAEA' + ' G' IA L EA"M' F' J' G' ! 'CAE' NA' A F""K ' - L BA 'AE' ' CF""AJ' IAD \ MG ' A G" ' FNF 'E ' F IG K' ' ' F. ' MG DE' E' IA ' AF" P 'C P"A ' ' ' EF J ' ' 'JA E GGJ' EIA' IFJ' BAA' ' FJ EAJ' G' N A' P' IA' =G ' MAEE G' ' GM' NEB N ' G' I CI' EIA IFE' P GMAEEAJ' G' FJ IA A ' F' J' G' FOA' G' I E' G IA ' MG D ' ' E AJ' EIA' G "J' BA' CF AM " ' F' J' G "J' ' G ' F"L "G ' IA EA"M' G' BA' D E"AJ

X # IA' F' E A AJ' IF ' ' ' AAJ' ' G ' F"F D' D KEA"M/ ' G ' G' A' GM' IA ' =G 'C " G "J' JF A' G' P GPGEA' E C" ' F' I ' N' G' IA

X ' EF J' IF ' I E' FE' A K' " OA"K ' $ IA' =G 'C " DA ' IF ' EIA' FE' GG' EA/ B ' IG NI' IAK' D NI ' ' G ' E NNAE ' ' GPA' "K ' IAK' D NI ' P ' I ' NE' BAMG A' IA ' ' ' E CI' F' FK' IF ' EIA' D NI ' FOA' M NI ' F' J' EG' BA' B G NI ' G ' J' G' IA ' P PGEA ' $ IA A' A A' P"A ' K' GM' E CI' PAGP"A' ' ' IA' CG ' K ' B ' IA ' ' DBA ' G "J' ' G ' EF A' IAD ' F' J' IAK' G "J' CGDA' G' ' ' F ' "FE % ' . ' ' ' ` "K' : ' 3 ' '

MG F J E" G 'N X F ?AN 'F] >G' EG Q DF K 2
PA EA" X$IF EF J IA R AA' I A JA' P JA TOU
X E F P AE GM IA G"J A" N G' X 'J I E TFJFD
EF J IA DBFEEFJG XKG EAA F P GGM GM IF =F IG" CE
F A =F IG" CE F A IA E PPG GM I G'AE I CI IA AL
CE JAE GK ' IAD KG TFHAE K "M 'J IA JKF" K
I CI "BA KG E FK ' IA JFK GM G B"A F'J IA AL
MG A IF A A A P FKAJ KG G FOA CF A GM IAD F'J
G MG B J IA "" AF DA'

9" UFBA I IFJ C" 'N FE A A CG' "E A"K G I E
IFPP A FEPAC GM IA =F IG" C E BHAC E IGP 'N IF F
DA G "J CGDA IA' IA 'N" CF'E F'J IAK CG "J
CGDA GNA IA G' EGDA DGJA F A CGDDG' N G 'J \ E CI
F N G 'J FE D NI IF A BAA' MG 'J MG F"" 9 GPA IFJ
'G PFEE G' BAA' CF""AJ ' G JAF" I Q AE G'E I CI
G'"K ' A""AC CG "J N FPP"A I % IA PFEE G' FE
IA A F'J N G 'N $IA G DG 'N PG A E ' IA
*AE A ' =I CIAE A A =F" ' ED F'J ." FDG' F' ED
F'J BACFDA JF "K DG A DF' MAE G 9" UFBA I IF
BAE JAE IAEA DGJA F A "GKF" =F IG" CE IA A A G IA E
J EC P"AE GM IA 'A ECIGG" GM `AE K F'J IA $ JA'L
'A =G 'C "/ DA' BK IGD EIA FE IA EA"M ANF JAJ
FE IA BFE F J GMMEP 'N GM FJ " A K IG FCO'G JAJNAJ
'G #G A A N' G' AF I' B IA !GPA GM ?GDA F'J 'G
CG ' K B IA EG CF""AJ =I CI \ DA' IG A A G'"K
F CI 'N MG IA DGDA' IA' EIA CG "J BA PPAJ P
F'J I "AJ G GM IA EAF G DFOA GGD MG IA D L
JA A GM +F '"AK FE I E EP I CI FE M "" 'N
IA A IA "F'JE I' B"GGJ FE I E IG NI EIA
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F `ADD 'NA' JFK G G FM A IA ECA'A ' IA
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C "' X $ I A G A I G GM =G ' -G E I IA DPI GM
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CF EAJ IA R AA' E TFHAE K G N A EGDA IAF 'N G E CI
FE I 'O IA EAC K CF' 'G IF A CG' ' F'CA M IA
P"F'A E OAAP IA CG EA X E IA FJJAJ F'J IA
G'A FE DGE EN' M CF' \ X E IA TFHAE K EIF"
IF A NGGJ CG 'EA" ' 'G 'CA GM FJ CA E DG A G I G
BA A(AC AJ BAMG AIF'J IF' ' IA E NI GM PA "E/B FE
"G'N FE IF A EA AJ IA R AA' E TFHAE K 9P DA IA E
IFE IFJ DG A G JG IF' ! GDA IA E
) IA CF EAE IFJ F EA' F"EG G DFOA 9" UFBA I 'L
AFEK MG IA A"F G'E I #PF ' ! A "F'N J F ADP E
G E PP AEE IA P F AA E IFJ BAA' A FJAJ F'J "F NIAJ
F $ IA =IF' 'A FE "AEE 'MAE AJ B IAK IFJ A(L
A'JAJ IA F FNAE G IA GCAF' $ IAK IFJ ' AJ
I IA > N A'G E GM ?GCIA""A F'J EF " 'N 'JA
=G'JA E M"FN F'J I =G'JJ E CGDD EE G' IAK IFJ
DFJA F P AK GM !FP E E IA A A IAK CG "J CF CI IAD
$ IA + OA GM " F F AJ IA 'H K F' ' F""K JG'A BK
IAD G #PF' EI CGDDA CA F M J CF E) '
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% F Q F A GM F J MMA A' O 'J IFJ B GOA' G F
TFJ J I CI I AF A'AJ DDAJ F A D ECI AM + '
TF' IA 9 'N" EI T ' E A G' I E M E F F IA A IFJ
BAA' F""G AJ G EA IA 'N" CF' EA CA ' I E G '
IG EA X IG JF'NA GM IA 'Q E G'/ B IA
P "ANA FE CG'M 'AJ G I E G 'PA EG'/ I E EAC A F AE
F'J EA F' E A A A(PAC AJ G BA P AEA' F DFEE
9" UFBA I HAF"G E MG IA =F IG" C CIF FC A GM IA
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A(A'JAJ 'JA F'F"GNG E C C DE F'CAE G IA T EEF" 2
F'J IA % A F K $IA IG EAIG"J GM IA #PF' EI D =*/
BFEEFJG A A'G DG A CGDPA""AJ G F A'J CI CI IF'
IA DBFEEFJG I DEA"M F'J EIA 'E E AJ IF + "F' E
A ' A EIG "J IF A F'F"GNG E 'J "NA'CA #IA G "J
'G XA'J A E CI 'AQ F" K F'J DFJA IA CG'CAEE G'
F CG'J G'GM IA AE JA'CA GM F' 9'N" EI T ' E A F
IA #PF' EI =G /
+ TF' IFJ BAA' "" EA"AC AJ MG F C CF" F'J J MM L
C " PGE E F C"A NKDF' IA BA" A AJ G BA I E J K
G AE MK G I E MF I >A IFJ F"OAJ "F NA"K F'J MGG"L
EI"K F #PF' EI J ' 'A FB"AE G' IA =I E F' DKE A AE
F'J IFJ MF""A' 'JA IA 'G CA GM IA EP F" F IG L
AE * IA' IA P AEA' AJ I E JADF'J MG F' A(A'E G' GM
I E P "ANA IA 'G G' "K FE DA I F P GDP AM EF"
B I E PA EG'F" A(ADP G'E A A IJ F ' >A FE
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G' F'K P"AF $IA 7 'N CG "J 'G N F' PA D EE G' M
IA G "J MG IA 7 'N FE D CI FE I E PAGP"A X FE
E BHAC G IA >G"K >G EA GM IA 'Q E G' ' $IA
R AA' GM 9'N"F'J D E E BD X G IA G JA I CI IA
N F'JMF IA MF IA B G IA F'J G IA IA P AJACAEEG E
IFJ BAA' CG' A' AJ IF"
DF' GM IA G "J G "J IF A BAA' E "A' IA
+GC G ADF OAJ PG' IA AP"K ' "F'N FNA I CI FE
IA"J 'JACA' >A FE ADG AJ M GD TFJ J F'J P"FCAJ
' CG'M 'ADA' ' F IG EA E ('D "AE J E F' M GD IA C K/
F'J EGG' FM A IG F 'N MG IA "A A E GM ACF""
I CI A A G' IA FK M GD 9'N"F'J ! I " P GGO IA
E G'N E AP GM EA'J 'N I D I E PFEEPG E F'J G JA 'N
I D G"AF A IA CG ' K FE 'G G BA CG'E AJ \

9" UFBA I G +GC G TF' @AB J * 3 ! @' -A
TOU Y 3+
I +GC G TF' G 9" UFBA B P "

' C "' '"AEE 9" UFBA I CIGEA G FOA ' EG \ ' G B AFO 'N GMM
TOU J P"GDF C A"F G'E I 9'N"F'J @G ' IA EFOA GM IA
N E =F " G" CE ! I " P E "" JAE AJ G OAAP F' FDBFEEFJG ' GM
I E G ' '-G'JG'/B ' IA J J ' A'J G DFOA F CIF'NA
' IGEA A"F G'E F'J F CIF'NA I CI IFJ F J E 'C '
AMA A'CA G IAIA A' E I CI A A ' P GN AEE '
@"F'JA E > E P AEA' ' D ' E A ' IFJ BAA'' CIGEA'' IA''
! I " P EIAJ G CG'C " F A 9" UFBA I F'J G ADG A
IA . 'P"AFEF' ' DP AEE G'E I CI IFJ BAA'' "AM ' BK IA
% EIGP GM Q "F ' +A # " F FE F I NI B AJ EA'E B"A
DF'' GM IA G "J ' P JA' ' DGJA F A I F 'F F"
J E 'C" 'F G'' MG ' ' N A/ CFPFB"A GM BA" A 'N IF '
ECI EDF C 8G A 'DA' E D NI ' BA EAM " F"" AE F'J
IF ' =F IG" CE A A 'G ' 'ACAEEF "K EF ' E ' +A # " F
FE 'G ' G BA ACF""AJ ' F'J F E CCAEEG ' FE FPPG ' AJ
G I E P"FCA BA A ' E AJ G P AEA' ' A(NA'C AE ' IA
PA EG'' GM +G'' 8 A F ' G ' 8A F"J JA 9EPAE) '' +G''
8 A F ' IFJ JAECA'JAJ IA J GPPAJ DF' "A GM JA R FJ F '
'MA G ' G I E P G G KPA '' 'F F" NA' E MG ' CG'EP FCK '
'MA G ' G I D '' ' A""AC F" FPP AC F G'' GM IA 'E L
DA' E I I CI IA FE G O 'N \ IA FE 'A A IA"AEE '
'' IF AJ GM IA AEK '' 'EC P "G E'AEE '' A'FC K GM
P PGEA F'J FBEG" A CF A"AEE'AEE GM PA EG'F" EO G
I DEA"M FE M ' F'' 'E DA' ' FE ! I " P CG "J IF A MG 'J
G CGDD ' CF A I IA =F IG" CE ' F'J G MG D F PF K
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G MG"O EF J ' G I ' N G IA % EIGP FBG IA DF L FNA B IA IFJ F"" G AJ TF "F ' J G GPA ' IA E BHAC I ' I D F ' J I ' G IG I E EF ' C G ' G MG"O E

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, AF"P AMA A'CA G' IA IG"A FE MG IA ECIADA I CI IA IFJ E NNAE AJ G G MG"O/ F'J D E"AFJ 'N I D P L PGEA"K FE G IA PA EG' GM IGD EIA FE EPAFO 'N EIA "A I D I 'O X IF EIA G "J 'G N AF "K D E" OA G BA GMMA AJ EGDA 'AF O 'EDF' GM IA R AA' E TFHAE K G' IA DG IA E EJA

$I E P G JAJ G' F"" E JAE \ IA =F IG" CE MG D 'N F CGF" G' MG IA ' G I CI IAK A A "FBG 'N G B 'N IA 7 'N GM #PF '/ IA CF EA N FJ F""K JA' MKL 'N EA"M I IA E NN"A G' IA =G' 'A '/ IA + OA GM G MG"O BA 'N P GPGEAJ G IA BK IA N AF 9 'N" EI PF K IG IFJ DF ' F 'AJ IA C"F DE G IA E CCAEE G'/ F'J IA G EAC G'E GM IA G ' E BHAC E "FBG 'N G CGDA G F CGDP GD EA ' IA MF G I G NI IA HG ' J E E GM 9" UFBA I \ IA R AA' GM #CG E P APF AJ G DAA IA M A CG'M JA' G' IA IG"A IF FDG'N EG DF'K CGDB 'F G'E ' IA MF G IA JF'NA I CI EIA "F A"K MAF AJ G "J BA F JAJ GMM ' A'A 'N IA CGDD EE G' GM IA % EIGP GM 7GEE F'J I E CGDL PF' G'E EIA FNF ' ADPG A AJ IAD G FCCAP 9" UFBA I E CG'J G'E/ EIA JAC"F AJ IA EA"M E "" AFJK G FBF'JG' @ F'CA F'J G DFOA F PA DF'A' F"" F'CA I 9 'N"F'J X MG IA AF" GM BG I AF"DE # IA FE "" 'N G FN AA G F'K DAFE A MG IA J G CA M GD %G I A""/ F'J I "A G #PF ' F'J @ F'CA EIA FE P G AE 'N IF EIA FE F A JF NI A GM IA !FPFCK EIA APAF AJ IA CG'L EA' G IA AE FB" EI DA' GM IA 'N" CF ' =I CI =G'L E G' '#CG "F'J M IA =G'MA A'CA GGO F JF'NA L G E ' F'J M CG' F K G A(PAC F G'E T FK P EIAJ I E FCC EF G' IA CGDD EE G' FE G BA 'JA E GGJ G

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PA""AJ' G' "GGO' IA' I' '' IA' MFCA ' F' J' G' BA' MG CAJ' MG '
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IF ' FE' JG'A' F' CGDPGE G'' GM' EGDA' O 'J' CG "J' BA'
J ECG A AJ ' G' I CI' #CG "F'J' D NI ' CG'EA' / TF K'
F E' D EJG 'NE' D NI ' BA' F ' EIAJ' G A ' F'J' EIA'
D NI ' BA' EPF AJ' M GD' MG DF'' CG'JAD'F G'' '

CI' F'' EE A' G' IA' R AA'' GM' #CG E' FPPAF AJ' " "A'
"AEE' J AFJM '' IF'' F' P B" C' JAC"F F G'' GM' IA ' ' Q AE'
! A ' M A'JE' EIA' E AJ ' D NI ' E '' P A A' ' ' B

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9 :C:' H:<C> C' :<: ' B ; ' 9$ ' 9 :<:'
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B: : ' : 8 H@> : =' ' 9 :' C$ =' 8 ; <=:<'
9>' $<:' 9 :<:' >' B:' H<>= ; D: = ' * 9 ; C'
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, IA BAE IGPA FE I IA G ' E BHAC E M EIA FE HHNN G BA AE G AJ F F"" EIA O'A IF MG IA G ' EFOA GADBA MM * A" FE MG IA IG'G GM #CG "F'J IAK G "J P AL MA G ACA A IA BFCO I F' 'E F 'AJ 'FDA/ F'J E 'CA IA AE G F G' E "" MG DAJ F PF GM 9" UFBA I E P GN FDDA EIA DFJA EA GM IA "A A G G O G' T FK/ EIA EA' I D G J IF EG "G 'N FE IA F'J I E M A'JE FBE F 'AJ M GD FCC E 'N IA EIA FE AFJK X G DFOA F' FPPG ' DA' / F'J G N A IAD F'K EAC K IAK JAE AJ MG IA " AE IA AE F AE F'J IA EIF A ' IA FJD ' E F G' GM IA CG ' K M IAK CIGEA G J EIG'G IA Q AA' F IA BF GM F MG A N' P 'CA X'G "G A G FEE AJ ACG'C " F G' CG "J BA GB F 'AJ FM A L F JE #IA J J' 'G EI G FCC EA IA E BHAC E/ E "" "AEE J J' EIA EI IAD G FCC EA IA M IAK G "J FBE F ' M GD X NG G E F'J A(ADA JAF" 'N EIA G' IA PF G "J MG NA IF IAK IFJ ABA""AJ FNF 'E IA

#IA O'A IF T FK IFJ NGGJ AFEG' G D E E 9" UFBA I F'J EIA BA" A AJ IF IA G A AE G "J BA FCCAP AJ M EIA MF "AJ F'J IA FCC EF G' P GCAAJAJ EIA JADF'JAJ G BA IAF J ' PA EG' ' AP"K BAMG A IA FEEADB"AJ 9 'N" EI !AA E f

* I I E P A" JA IA =G'MA A'CA A GPA'AJ F * AE L D 'E A 'G' IA KT I' GM G ADBA $ IA I AA 9 'N" EI =GDD EE G'A E A A A FPPG ' AJ/ %FCG' ' 'JA" -A CAE A =" ' G' F'J =AC " A A FJJAJ G IA ' DL BA / IA ADF ' 'N 'GB"ADA' IG IFJ ACA AJ F E DL DG'E A A G HG ' IAD F F "F A 'E FNA ' IA A'Q K $G A FJA IA FPPAF F'CA GM F C"F D G A(A C EA H E

B>; ' 9:' D> ?<8$ > ' >?' +$< ' * 9:' %;:: ' >?' !D> C' >' 9:' ! ;$< C' =:H>C > ' B; ' >' 9:' @$C ' C9>H' >?' '>CC' $ =' 3><=' /:<< :C' >?' 9:8':CH:D $@@ ' ,@ I$B: 9' 9:<C:@?' .>E:8B:<' II Y * !' E>@' ' D>;@=' :E:<' B:' B<>;F9 ' >' D> C:

J C G' IA !F ' AJ =IFDBA F GGD 'A A EAJ MG 2
H J C F" P PGEAE FE EA"AC AJ FE IA P"FCA GM DAA 'N TOU
)' IA M E JFK IA =GDD EE G' tKFE AFJ IA GF IE G w@
FOA' F'J IA MG DF" AE NG G A $IA % EIGP GM
9sEE A' A AJ F X P G AE F G' IF I "A AFJK G AF
MG F' F F'NADA' IA FE E BD 'N G 'G MG D GM
H JNDA' 'G G "J FJD F'K H JNA G H JNAE IF L
A A G IF A F IG K G A I E #G A A N'
$IA 'A(JFK @ JFK IA Fo I IA EA G E PF GM
IA B E 'AEE BANF' $IA P GCAAJ 'NE A A FOA' P
IA A IAK IFJ BAA' J GPPAJ F VG O $IA FCC EF G'E
FNF 'E T FK A A AFJ G A I I E DPA MAC
F'E A $IA AP" AE I CI IA IFJ EG MF DFJA IFJ
BAA' AFE "K F'E A AJ >A FE FEOAJ M IA IFJ F M IA
JAMA'CA
 EAADE IA' IA GEA IF 'G G'A P AEA' O'A IF
IA ' A'JAJ G EFK 9 A K AMMG IFJ BAA' DFJA G '
J CA I D G BA E "A' F'J 9" UFBA I E A(P"F'F G'E IFJ
'G BAA' GM IF M F'O F'J ' AEA AJ O 'J I CI F"G'A
IA IFJ EF J F VG O G "J ADP I D G P GCAAJ A IA
E IA A AFEG' G E PPGEA IF F'K M IA P GD EAE IFJ
BAA' DFJA G I D ' P F A >A MA" PGEE B"K IF
I MF"EAIGGJ F'J P PGEAE IF"M F G AJ F"" F G 'J
I D IA G'"K EFMA AFJ 'N MG I D FE G' IA GPA'
GFJ > E M A'JE BA" A AJ IF IA IFJ MF""A' ' G F
E'F A I CI 9" UFBA I IFJ "F J MG I D M FE EG
IA IFJ F "AFE B G NI GMM I E NGGJ 'FDA ' F ' EIAJ
M GD IF 'AE GM "" E G' F'J ' N A
>A EF J IF IA I DEA"M F'J IA -G JE I E CG'MAJA
F AE IFJ EG NI G'"K ' F"" I CI IAK IFJ JG'A G C"AF
#CG "F'J GM IA J EN FCA I CI IA D JA GM +F '"AK
IFJ B G NI PG' $IA G "J IFJ EAA' IA 'L
"" 'N'AEE G P B" EI DF A E G E F'NA E I CI A'JAJ
G IA R AA' E 'MFDK $IAK CG "J IF A C"AF AJ IA

' # ' CG ' J C ' @ > 2 F ' BAMG A ' IFJ ' IAK ' CF AJ ' G ' DFOA ' O ' G ' ' IA '
A JA ' CA ' FNF ' E ' IA ' I CI ' IAK ' PGEEAEEAJ ' F ' J ' G ' ' I CI '
TOU
. >E: 8B:< IAKXIFJ ' FC AJ/ ' B ' IAK ' IFJ ' CIGEA ' ' F IA ' G ' A ' J A '
IA ' AP GFCI ' I CI ' FE ' CFE ' PG ' ' IAD ' / F ' J ' IA ' G "J '
IF A ' E "" ' ADF ' AJ ' E "A ' ' X M ' IA ' CG ' ' F ' CA ' GM ' #CG '
"F ' J ' ' ' IA ' E F A ' GM ' F ' O ' NJGD ' F ' J ' IA ' P GMAEE G ' ' GM '
A ' A" N G ' ' G "J ' IF A ' PA D AJ ' X > A ' IFJ ' ' G '
JA" NI ' G ' EAA ' I E ' #G A A N ' ' J EIG ' G AJ ' B ' I E '
FJ A EF AE ' "AM ' I D ' ' G ' CIG CA ' B ' G ' P GJ CA ' IA '
' NE ' I CI ' IAK ' O ' A ' IF ' IA ' PGEEAEEAJ ' * I '
IAEA ' G JE ' IA ' 7ANA ' ' "F J ' G ' ' IA ' FB"A ' F ' A ' '
JAC"F F G ' ' IF ' I E ' E E A ' IFJ ' BAA ' ' IA ' CG ' A ' F ' J '
JA EA ' GM ' IA ' D JA ' GM ' I CI ' %G I A"" ' IFJ ' BAA ' ' IA '
' E DA '

$IA ' FCC EF G ' ' FE ' N A ' ' ' ' $IA ' A JA ' CA ' G ' ' I CI '
F"" ' G "J ' ' ' FE ' E "" ' ' AEA A ' ' FE ' ' G ' IA '
FEEA G ' ' IF ' EIA ' IFJ ' FPP G AJ ' GM ' IA ' D JA ' I CI '
EIA ' MAF AJ ' MG ' IF ' D NI ' IF A ' BAA ' ' MG N A ' ' / B '
TF "F ' J ' IFJ ' EA ' ' IA ' CGP AE ' GM ' IA ' CG ' A ' E ' GM ' IA '
CFEOA \ IA ' CF A"AEE ' EG ' ' A E ' ' ' I CI ' EIA ' IFJ ' F""G AJ '
IA ' PFEE G ' ' G ' ' G A ' / IA ' "A A E ' ' ' I CI ' EIA ' IFJ '
A(PGEAJ ' IA ' A K ' ' DGE ' G O ' N ' GM ' IA ' DFJ ' AEE ' I CI '
IFJ ' PGEEAEEAJ ' IA ' I ' IA ' JA F "E ' GM ' IA ' AFCIA K ' G '
IA ' D EA FB"A ' I EBF ' J ' F ' I CI ' EIA ' IFJ ' IA EA"M A G" AJ '
' ' IA ' IAF ' GM ' IA ' JA" D ' %G I A"" ' IFJ ' P AEA AJ '
IAD ' F"" ' F ' J ' F"" ' A A ' ' ' T FK E ' IF ' JE ' / F ' J ' ' G ' DF ' '
G ' GDF ' ' FE ' A A ' BG ' ' ' G ' IA ' G "J ' IG ' CG "J ' CG ' L
ADP"F A ' IG ' A G ' E CI ' A(PGE A ' GM ' IA ' ' ' A '
EA" AE

$IA ' =G ' MA A ' CA ' FE ' P G GN AJ ' MG ' I AA ' JFKE ' $IA '
9 ' N" EI ' =GDD EE G ' A E ' A ' ' JG ' ' G ' > FDP G ' ' =G ' G '
' MG D ' IA ' R AA ' ' GM ' IF ' IFJ ' PFEEAJ ' ' FE ' PA IFPE '
E PPGEAJ ' IF ' TF K ' # F ' EGG ' A ' IF ' ' F"" G ' DF A E '
G ' FJ F ' CA ' M IA ' G "J ' M" ' N ' IA EA"M F ' 9" UFBA I E

, =F J 'F =IF ""G' IFJ DFJA BA A ' 'C" 'AJ IF' FE F
TOU M E A(PAC AJ G IA R AA' GM #CG E ' A AE E
G ADBA >FJ IA A BAA' F'K CIF'CA GM DFO 'N F E CCAEEM
JAMA'CA ' E J"A G P A A'J IF IA % EIGP GM %GEE
G "J 'G IF A AJ /B ' ' IA PGEE B"A ''GCA'CA
GM TF K # F IG G"A FB"K A"" 'MG DAJ PA EG'
Fw@AC AJ ' P F A G BA" A A -F TG IA IG NI IF
IA " MA FE ' JF'NA $IA "F KA E EF J IF IF 'N
CGDA ' G IA AF"D IG F PFEEPG EIA IFJ MF""A'
'JA 9" UFBA I E H EJ C G' F'J D NI BA AJ F
IA E GM IA 9F " GM -A''G(MG IA D JA 'GM F'
9'N" EI E BHAC #IA D NI JA'K IA "A A E B '
IA P AEA'CA GM EG D CI CG GBG F A A JA'CA " A G '
G J G "J IF J"K F F " IA FE IG NI F G'A
DA IF EIA IFJ BA A EFK IF EIA FE ''GCA' / B
IF M EIA FE 'G ''GCA' %G I A"" FE F 'AC GL
DF'CA F'J IF EIA IFJ BAA'BA CIAJ > A M A'JE
D E IF A BAA' IF J P AEEAJ G I 'O GM E CI F'A(L
C EA -F TG IA G' IA IG"A FJ EAJ IA % EIGP G
PF K IA CIF NAE BK AC EF G' G A FJA IA EE AE
F'J X FC DA TAF' I "A IA G "J 'MG D I E G '
=G F'J EGDA G'A G "J BA EA' G A M GD @ F'CA G
ADG'E F A I 9" UFBA I FNF 'E K 'N F = G 'AJ
! 'CAEE

) ' IA E GM +ACADBA IA % EIGP F'J -G J > A AE
' DF AJ IF IAK A A P APF AJ G AP"K $IA 9F "
GM 'JA" IG IFJ BAA' FBEA' I IA G M GD F AF"
G P A A'JAJ ""'AEE IFJ 'G HG 'AJ I E CG""AFN AE

X9 'Q A" G''PG F'F EE'F""bN A' A' EdF B A' "A' DAE A ' FKF' '
Q A'Q F' 'B A' "F' J C A' +FDA' F G ' MF C 'P" E'N F' JA'P GMMAEE G' 'J ' ADPE'
F ADP b' Q A"Q A' CIGEA' A' ' CAE 'A' ' Q "" AE G ' F (' AECG""AE' Q A' JA' " A'
J G C ' CA' Q A""A' 'A' M ' G'CQ AE' "A' A ' AE J A ' A' ' "F' 'bN GDF'C A' A '
=G' A' JA' %GJ A"" "K'F G ' 'J C A' DFN A' JbMA'J % > ' 'IP '
A ' CG' F ' A' PF ' MG CA' J A'CIF' ' ^ ' G ADBA ' 3< \ P a '
DA' ' A ' J A'EG CA"ADA' ' CGDDA' " G"' ' F 3+

>A AE EPGOA M E > A EF J IF IA IFJ CG'E JA AJ $ 2 '
T FK E'CIF NAE $IAK A A'DA A'CF" D' AE ' A' AJ TOU
BK I D'F'J'I E'M A'JE'M GD'F'MAF IF IAK G "J'BA'JAL +ACADBA
P AJ'GM' IA'AE F AE' I CI' IFJ'BAA'' N F' AJ' G' IAD' ''
IJ'R AA' E'D 'G K' ! A' AQ AJ' IA' =GDD EE G'A E'
FE' IAK' A A'DA'' GM' IG'G ' F'J'XJ A E'GM' IAD'GM' IA'
DGE'F' A 'F'J' 'GB"A' B"GGJ'GM' IA' AF"D ' G'E EPA'J'
IA 'GP ' G'' F'J' CG'E JA ' IG ' JF'NA G E' IA'A(FDP"A'
D NI 'BA' M'E BHAC E' A A'F""G AJ' G'JAPGEA' IA ' ! 'CAE
DG'N' IGEA' IG' 'G 'FPPAF AJ'FE' IA 'FCC EA E' A A'
EGDA' IG'IFJ'BAA'' IADEA" AE'PF AE' G' IA'CG'EP FCK
!"A AE' FE' IA A' G'' JF'NA G E'N G 'J'MG 'IA' FE'
CI AM"K' G CI 'N' TF "F'J'F'J' TF "F'J' FE' G O 'N'
JFK'F'J' ' NI 'MG ' IA'R AA'
$IA'%EIGP'GM' ?GEE' MG""G AJ' >A'EF J' IF ' IA' FE'
MG B JJA'' BK' I E'CGDD EE G'' G'A' A ' PG'' IA'Q AE G''
I CI' IFJ' 'G 'BAA'' F EAJ' $IA' =G'MA A'CA' IFJ'BAA''
FEEADB"AJ' G' IAF ' IA'CGDP"F ' E'GM' I E'D E AEE' FNF 'E '
T FK' 'G ' IF 'EIA' IA EA"M' EIG "J'F'E A 'BAMG A' 'FE'
F'C D 'F"' $IA' 9F "' GM' T FK' IFJ'BAA'' F""G AJ' G'
FCC EA' IA 'CG' F K' G' IA' A'NFNADA' E' GM' IA' R AA''
GM' 9'N"F'J' M' I E'D E AEE' A A' G' AP"K 'EIA' G "J'
AP"K'G'"K' ''PA EG'' XMG 'JAC"F F G'' GM' IA ' ''GCA'CK'
BAMG A' IA'R AA'' F'J' IA' !AA E
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%EIGP'JAC" 'AJ' G' FOA'F'' F'E A 'A(CAP 'M GD'9" UFBA I'
IA EA"M' IA' =G'MA A'CA' FE' FJHG 'AJ' I IA ' ' IA'
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FPPAF AJ'F'J' GGO' IA ' EAF ' 'P F A' ' DF G'' IFJ'
BAA'' CG' AKAJ' G' IA'%EIGP'X IF ' IA IA ' I E'D E AEE'
FE' MF " K' G ' 'G ' MF " K 'EBA' G "J'BA' MG 'J' '' MF " '
'' IA'A'J' F'J'BK'CG"G ' IA AGM' IA'R AA'' GM'9'N"F'J

' ! GCAAJ 'NE' GM' IA' =GDD EE G'' +AG' ' , ' G"' ' ! '
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c " G "J MG EFOA IA $IA % EIGP F G'CA CIF NAJ 9" UFBA I I B AFCI GM MF I #IA IFJ BAA' G"J M GD +ACADBA R CC' GM #CG E IFJ MG B JJA' IA =GDL D EE G'A E G AP"K G F'K FCC EF G' I CI G CIAJ IA IG'G >A IFJ BAA' EA' I I E CG""AFN AE G CG'L E " G' IA DAF'E +M ACG'C " 'N IA I IA E BHAC E # 'CA IAK IFJ BAA' F""G AJ G A'CG FNAJ G FOA IA P AEA' F JA IGEA IGPAE A A 'G F F' A'J $IA R AA' GM #CG E X G "J 'A A IA AFM A A(A'J IA C"ADL A'CK G IAD >A JADF'JAJ IA 'E F' F AE GM T FK F'J I E M A'JE F'J PA D EE G' G I E D E AEE G FPPAF ' IA G ' JAMA'CA

 $IA G'A FE BG"J X $IA =GDD EE G' IFJ 'G A'L A AJ FE # @ F'C E 7 'G""KE A(P AEEAJ X ' G IA BG A"E GM IA GJ G E FCC EF G' G DG A IF' A A 7 'G""KE A' AF AJ =AC " G DFOA C"AF G O I / BA 'N E A G'"K GM I E X IF 'CG'E F' F A 'N G 'EG 'J FN AADA' D NI B AAJ N AF JF'NA E 9 A K G'A FN AAJ IF E 'CA IA R AA' GM #CG E IFJ BAA' FCC EAJ IA AQ AE G BA F""G AJ G EPAFO MG IA EA"M G NI 'G G BA AM EAJ FE F Q FE FJD EE G' GM 9 'N" EI H EJ C G' ' #CG EI CF EAE \ F CG'CAEE G' ' EA"M GM 'G EDF"" DPG F'CA #GDA IG NI IF EIA EIG "J BA IAF J BAMG A IA R AA' ' PA EG' I IA IG"A BGJK GM IA !AA E F'J ! K =G 'C ""G E F'J IF IA MG A N' DBFEEFJG E EIG "J BA F""G AJ F G CA) IA E IG NI IF F" IG NI IA " DF A H JNDA' EIG "J AE I IA R AA' IA CF EA EA"M EIG "J BA AJ BK #PAC F" =GDD EE G' F'J IA DBFEEFJG E IG NI P AL EA' EIG "J BA FJD AJ G'"K FE EPAC F G E % F"" F""G AJ IF ' EGDA MG D G G IA TF K # F G NI G BA F""G AJ IA 'F F" NI GM A A K FCC EAJ PA EG'

"D NI K 8GJ IFJ 'G CG'JAD'AJ JFD "" JFD H 2
IFJ BAA' CF""AJ G F'E A MG I DEA"M TOU
+ACADBA
% IA A FE G BA 'G M" 'N M F CG GM I E
O 'J FE G BA IA"J F F"" IA % EIGP GM ?GEE FE
'G IF""G AJ G ADF ' ' F'K "" E G'' G' IA MG D I CI
IA P GCAAJ 'NE G "J FEE DA M IA R AA' GM #CG E
FPPAF AJ G' G'A E JA IA A JA'CA G "J BA B G NI
MG F J G' IA G IA
$IA % EIGP F'J M"A AE '"FK 'N FE JA IA I NI'"F'N FNA
I CI IAK IFJ EAJ ' IA =G ' 'G AQ AE AJ F P
F A ' A A I'=AC "F'J -A CAE A $IAK EF J IF
IA D E AEE XIFJ JAE AJ M GD IA BAN ' ' 'N IF IA
CF EA EIG "J BA A'JAJ BK EGDA NGGJ FPPG ' DA' I
IA E BHAC E $IAK IFJ BA" A AJ IA EI G BA EIF AJ
BK 9" UFBA I F'J BAMG A IA FCC EF G' FE P AEEAJ
M IA G' A IA PF IAK A A F'(G E G O'G IAL
IA EGDA I 'N GM IA O 'J FE 'G E "" PGEE B"A
=AC " IF IA D NI BA E A IF IA A FE 'G D EL
'JA E F'J 'N DFJA IAD APAF IA G JE >A IA'
CG'J C AJ IAD G 9" UFBA I G IGD IAK FNF '
E NNAE AJ IA JAE FB"A'AEE GM E GPP 'N IA CFEA
9" UFBA I IFJ A IA ' A' G'F""K CG' AJ IA E L
F G' G 'E F' "K F F "AJ IA EA"M GM E FJ F' FNAE
#IA EF J PG" A"K IF IG A A JAE FB"A F CGDP GD EA
D NI IF A BAA' G "J 'G BA MF F" G IA E E A E
IG'G $IA 9F " GM T FK EIG "J BA AQ AJ G
P G A I E F""ANF G' \ EIA J J 'G JG B IF IA G "J
MF "\ F'J IA R AA' GM #CG E NGGJ 'FDA G "J IA' BA
EF AJ IG A IA CGDP GD EA G ''AAJ GM F'E A
$IA % EIGP MA" I E D E FOA B CG "J 'G A(CF A
I DEA"M >A EF J I E D E AEE G NI G BA IAF J F

X - FJ E JAE FJ GCF E' \ ' P a JA T "F TG IA @b'A"G' G" r
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, G'CA/ XBA 'N FB"A G F""ANA DF A IK T FK G NI
TOU 'G G BA F""G AJ G P GPGEA F'K I 'N FNF 'E IA
+ACADBA HHH CI "AEE P G A F'K I 'N ' IA FBEA'CA FNF 'E IA
IG'G

% 9" UFBA I EbADAJ DG A HAF"G E MG IA R AA' GM
#CG E AP F G' IF' IA R AA' GM #CG E IA EA"M #IA
EF J X IF EIA J J EG D CI P AMA IA AE DF G' GM
IA E E A E ''GCA'CK IF BAMG A EIA G "J F""G IA
DF A G BA E FKAJ EIA D E IF A I^9F "M T FK
G 'J"K F'J EIF P"K CIF NAJ I I E F JFC G E JAL
MFD 'N GM I E #G A A N' \$IA 9F "M T FK G "J
GM CG EA F'E A F'J A A K I 'N G "J BA A(PGEAJ

9ECFPA FE 'G DPGEE B"A M IF FE IA AEGL
" G' IA % EIGP CG"J"K EF J IF EIA D E JG FE EIA
P"AFEAJ @G I DEA"M IA G "J B A' A I E P G AE
F'J IJ F > A FE MG B JJA' G BA F PF K G F'K
M IA P GCAAJ 'NE F'J EG MF FE IA IFJ PG A G
C"GEA ' IA JAC"F AJ IA =G'MA A'CA F F'' A'J

\$IA =G FE I E "AM F"G'A I IA ?ANA' \$IA
% EIGP FPPAF AJ G'"K G' IA 'A(EAEE G' G APAF
IF IA IFJ EF J G IA R AA' T FK FE IA'' 'L
GJ CAJ F'J P PG' I E JAMA'CA > A FE G"J IF
F" IG NI IA IFJ MG NG A'' I E J K GM F""AN F'CA '' FCL
C E 'N I E #G A A N' GM EG IG B"A F C DA KA IA
R AA' GM 9'N"F'J G "J 'G MG NA IA GMM CA GM F NGGJ
'A NIBG E E A F'J M A'J M IA IFJ F'K I 'N G
F""ANA '' H E M CF G' GM I DEA"M IA =GDD EE G'A E
A A AFJK G IAF I D

A K A" C F' "K ADBF FEEAJ BK I E 'ANG F G'E
I G MG"O FNF 'E TF "F'J E FJ CA MG TF "F'J
BA" A AJ IF IA FE ' 'N I DEA"M F'J I E M A'JE/
FNF 'E I E G '' MAA" 'NE MG IA PA IFPE F"G'A GM IA

IG"A PF K IFJ EGDA AF" FMMAC G' MG I E MF IA E 2
JF NI A \ T FK I E J A' P GJ CAJ IA MF F" 51#
CFEOA $IA JAPGE G'E GM IA D JA A E IG IFJ BAA' 2:D:8B:<
A(AC AJ A A AFJ G A I IA FC E GM IA #CG EI
!F " FDA' GM IA P ACAJ 'N +ACADBA A"EG' +F '
"AK E EA F' NF A F' FCCG ' GM IA "FE ' NI F 7 O G
@ A"J = F MG J A"F AJ IA ECA'A F 8"FENG BAMG A
+F '"AK FE B G NI G 9J 'B NI I G IA PF L
C "F E $IA A' A A JA'CA FNF 'E IA R AA' GM
#CG E FE P"FCAJ ' IA IF'JE GM IA =G 'C " F'J IA
DA FE 'G CGDA MG IA P AEA'CA GM IA 'GB"ADA'
IG A A DGE IA M A'JE $IA TF Q E GM G IL
FDP G' IA 9F "E GM %AJMG J F'J !ADB GOA -G J
* "" FD >G F J F'J # * F" A T "JDFK IFJ F" AFJK
HG 'AJ IA =GDD EE G' $G IAEA A A 'G FJJAJ IA
9F "E GM G I DBA "F'J * AE DG A"F'J F'J +A BK
IA 9F "E GM #I A EB K * G CAE A !" ' 'NJG' F'J
* F CO $IA CFEOA FE GPA'AJ F'J IA "A A E
EG' 'A E F'J CG' FC E A A FOA' G F'J AFJ $IAK
A A A(FD 'AJ "G'N F'J D ' A"K BK AFC I F'J A A K
GM IA -G JE IG A A P AEA' X $IAK A A CGDPF AJ
MGH IA DF' 'A GM 'N F'J MFE I G' GM G IGN FPIK
I G IA "A A E BAMG A A' BK IA R AA' GM #CG E
' IA CG""F G' IA AGM 'G J MMA A'CA FE MG 'J
X G J MMA A'CA FE MG 'J "" IA EIAE G M 'J
IA R AA' GM #CG E ''GCA' G F "AFE IA N "
X 'P G A' CG "J' 'G ADG A IA'G A IA"D 'N MG CA GM
IA P GGME M E G'"K MG \ =AC " #FJ"A -A CAE A
F'J %FCG' \ JAC"F AJ IADEA" AE CG' 'CAJ $IA AE
A IA IG NI G EF J IAK IG NI IF IA A FE
E "" GGD MG JG B G IF IAK D E E EPA'J IA

! : : 9 : H<>D: := FC ' D : @:=' $'5:@$D e ' =:@ :F>D >' =:' @$
&22' 9:' + ! ' $D[>; ' ' 9:' 5>@@C' !:< ' 5: $' =:' ,CD>D $ Y
/ >;C: ' $ ='$' 8>C ' D 8 > '=>D : ' '

TOU
2:D:8B:<

, H JNDA' "" IA R AA' GM #CG E IFJ BAA' IAF J G IF IAK IFJ IADEA" AE 'G NI G BA IA H JNAE % %FCG' P AEEAJ IAD G EFK IA IA ' ' IA MFCA GM IAEA"A A E IA R AA' GM #CG E CG "J BA FJD AJ ' G 9" UFBA I E P AEA'CA/F'J IA' X IA EF J 9F "E EA A F""K DFJA F'E A IF IAK IFJ IA A ' EAA' E CI MG " DF A E FE IAK IG NI "K ' IA CG'EC A'CAE IF IA T FHAE K IFJ H E CF EA G AM EA G EAA IA ' " EGDA F'E A IFJ BAA' DFJA M E A'J 'N ' EGDA FK G C"AF IA A NI GM IA CIF NA $IAK CG "J 'G I 'O DAA MG IA T FHAE K E IG'G G FJD IA EF J R AA' G IA P AEA'CA FE IA CFEA J J E F'J

$IA R AA' GM #CG E ' FPP"K 'N G BA IAF J ' PA L EG' IFJ CG' ADP"F AJ F' PFNAF' ' * AE D 'E A >F"" F H K JA A D 'AJ G FCQ IA IA IA N " K G ' 'GCA' F' JAC"FDF G K JAMA'CA ' I CI EIA G "J EFK X IF IA CIF NAE FNF 'E IA A A MF"EA BACF EA EIA G' IA G J GM F ! 'CAEE J J EFK IF IAK A A MF"EA

' 1<>D::= FC > 9:' T 9' >?' 2:\ D:8B:<'Y 'D * *>@' * 9:' ?<C' C F9 '>?' 9:C:' H$H:<C' C::8C' >' 9$E:' $??:D :=' 9:' 9>@:' H$< ' $C' 9$=' $??:D :=' . ><?>@J' $ ' 0><J ' * 9:' ,$<@' >?' . >< 9;8B:<@$ ='B: F' $CJ:=' $? :< $<=' 9>8' $ ' 9$ ' 8:' 9:' ?>; =' $== D :=' >' 9:'!D> C9'%;:: ' $ C :<:='$'9:' ?>; =' > :' $== D := ' \ % ' ' ' '5 + ' TOQ ' &HH: =7'H'K U -' $'8 ' ' ' & H' &* ' & # = ' 0 '' (* ' ' * #? '' & ' . # * #* # ' & '' *.0 '#*' #' ## #& ' ("& ' & ' *## ' . ' @' (# . ' , ' &* . ' &* ' '' *> # ' ? . ' . ' * . ' > ." ' & '' * # ' ' & '' & '+ * ' . '' ' & ' @ '# *# ' ' (' '. ' L '' #' (##*" + '' , @:CC' 9$ ' >;<' D>8 8 CC > :<$' $ =' >;<' + $:C ' >;@=' $J:' $' C9><' $ C&E:<' ?><' $' C;? D : ' $ C :<Y 9$ ' C' >' C$ ' 9$ ' 9:' $DD;C$ > C' >?' 9:<' $=\ E:<C$< :C' $<:' ?$@C:' B:D$;C:' 9$ C9:' > ' 9:' ><=' >?' $' 1< D:CC' @@' C$ ' 9$ ' 9:' $<:' ?$@C:' ?' 9 C' J =' >?' $<F;8: ' @@' C$ C? ' >;<' + $:C ' ?><' $' C;?? D : ' $ C :<' >;' 8 $ ' C>> ' ' 9 J' 9$E: ' 9;' ' 9 J' ' E$ ' ' 9:C:' D$;C:C' >' @>>J' ?><' 9:<' $ C :<' $C' C $ = F' >' 9:<' ;C \ ? D$ > ' ?><8 $@@ ' ' H<>B$B@:' ><=:<' $ =' C>< ' 9>; ' 9:<' $CC;<$ D:' $?><:9$ =' 9$ ' 9> :E:<' 9:' 8$:<' C9$@@' ?$@@' >; ' : ' 9:' ;=F8: ' C9$@@' ?$@@' > ' 9:<' C =: Y Z #1@ ' ' = K + ' 2:D' KO' ' ' G '- $ ' 5 '

#IA FE DFJA G MAA" IF M EIA DA IA CIF NA F (F"" EIA D E DAA MG DF""K F'J '' JA F " BAMG A F TOU 2:D:8B:< CG I CI G "J K IA CF EA BK IA ACA AJ "F E GM A JA'CA M A ACA 'N IA GP ' G'' GM IA !AA E 9" UFBA I EA' MG IA % EIGP GM ?GEE F'J NF A I D F CIG CA GM I AA FKE '' I CI IA R AA'' GM #CG E D NI DFOA IA AP"K #IA D NI A IA JAMA'J IA EA"M '' 'N G '' PA EG'' BAMG A F CGDD AA GM 'GB"ADA'' IG EIG "J NG JG '' G %G" G'/ G EIA D NI BA IAF J BK CG 'EA"' F'J EA"AC I DEA"M G F'K G IA PA EG'' G AP AEA' IA $ "" I E IFJ BAA'' JG'A 9" UFBA I EF J EIA CG "J 'G EAA IA /F'J EIA G"J IA % EIGP IF X IGEA IG FJ EAJ IA G FBE F '' M GD F'E A 'N A(L CAP '' IA G '' PA EG'' IG A A IAK'EIG "J EAAD NGGJ EA F' E' J J F IA BA FK IA G P GC A IA CG'JADL 'F G'

$G I E PG ' FM A F"" IA P GD EAE F'J MF EPAACIAE IA Q AE G'' IFJ BAA'' B G NI G 'J F "FE 9" UFBA I IFJ ADP AJ IA R AA'' GM #CG E ' G 9 'N"F' J F' J IA'' IFJ DP EG'AJ IA #IA IFJ B G NI IA G CG'EA' G F'' A'Q K I P GD EAE EG GM A'' APAF AJ IF IA IG'G EIG "J BA '' 'G PA " IF A A'' I IA PFE A(PA A'CA IA R AA'' GM#CG E FE MG CAJ G BA" A A IA /F KA IA R AA'' GM #CG E FE A' F'N"AJ FNF '' '' IA DAEIAE F'J IA M 'A G JE IFJ 'AJ G G BA FE 'J '' BG I CFEAE 9" UFBA I IFJ 'G DAF' G JAL CA A/B F FC."F 'N P PGEA F'J EI M 'N I DG IFJ BAA'' FE AM AC A FE IA DGE JA" BA F A AFCIA K $IA % EIGP J J 'G CF A G P CO I E G JE >A AD 'JAJ IA R AA'' GM IA DF'K "A A E '' I CI EIA IFJ G"J I E D E AEE X G IF A B G'A E 'N G IA BG G E G IA F'J G BA EFMA #IA IFJ P GD EAJ IF T FK EIG "J 'G BA FJD AJ G IA P AEA'CA/KA EIA IFJ 'G G'"K FJD AJ I D B IFJ F""G AJ I D G

, =@ G JE IA A I CI 'G E BHAC EIG "J BA F""G AJ
TO# G EA FNF 'E I E ! 'CA >A Q G AJ $ FHF ' MG IA
2:D:8B:< EF 'C MK GM #G A A N 'E/ F 'J IA EF J IF M EIA G "J
'G AE G A I E D E AEE FE EIA IFJ BG 'J IA EA"M G JG
F "AFE EIA G NI X ' IG 'G G GPA ' IA P EG ' F 'J "A
IA NG IA A EIA G "J

9" UFBA I CG "J G '"K EFK IF EIA IFJ JAE AJ E 'CA A"K
G DFOA EGDA F F 'NADA ' BA AA ' IA R AA ' GM #CG E
F 'J IA E BHAC E/ XB EAA 'N IA ' ' F F" BAIF G
' FCC E 'N IA ' FE 'G DPGEE B"A #IA D E ' 'G
P E A IA A 'Q K F 'J P ' EI IA FCC EA E ' '"AEE
IA CIF NAE A A IA"J G BA P G AJ

* IF DG A FE G BA A" C AJ IA ' IA N AF PG ' '
IFJ BAA ' NF 'AJ GM J EN FC 'N IA R AA ' GM #CG E BAMG A
IA 9 'N" EI PAA E ' FE 'G AFEK F M E E NI G PA L
CA A B IA ' CFC AE GM 9" UFBA I E P PGEA A A FE
KA MF M GD 'MG"JAJ #IA EF J IF F ' F F 'NADA '
FE DPGEE B"A/ B FE "" BA P AEA ' "K EAA ' EIA DAF '
G '"K E CI F ' F F 'NADA ' FE EIG "J "AF A IA R AA ' GM
#CG E FB"A G P A A 'J IF EIA IFJ DFJA CG 'CAEE G 'E
I CI EIA D NI IF A AM EAJ M EIA P"AFEAJ #IA J J
'G EI IA G OAAP F ' ' "" 'N P EG 'A G P"G F 'J
CG 'EP A #IA JF AJ 'G CIF""A 'NA IA GP ' G ' GM
9 GPA BK PFEE 'N EA ' A 'CA PG ' IA 'G G "J EIA
P G 'G 'CA GPA '"K ' MF G GM IA AEPG 'E B " K GM
! 'CAE #IA EIAJ G '"K G MG CA IA R AA ' GM #CG E
G FBF 'JG ' IA JAMA 'CA G I G IA EA"M ' AEA AJ"K G '
IA G ' MG BAF F 'CA F 'J FN AA G A DE\ IA DAF ' 'N
GM I CI IG A A P"F E B"K J EN EAJ G "J IF A BAA '
F E BE F ' F" CG 'MAEE G ' GM N "

"" JA F ' 'N IA % EIGP ' -G 'JG ' IA AMG A EIA
G A G 7 'G""KE G EFK IF XMG F G J 'N IA A(AL
D AE I CI FPPAF AJ G BA DPA 'J 'N G A IA EIA

FJ EAJ' IA' R AA'' GM' #CG E' G' CG'M D' IA' FBJ CF G'' ' 2 '
I CI' EIA' IFJ' DFJA' F ' -GCI"A A'' #IA' D NI 'N G 'J' ' TOU
G'' IA ' AF 'AEE' GM' NG A 'DA' 'F'J' G'' IA ' JAE A' G' EAA' 2:D: 8B:<
IA ' EG'' AE FB" EIAJ' G'' IA' I G'A' #IA' D NI ' IA EA"M'
AD F '' '' 9 'N"F'J' FE' "G'N' FE' D NI ' EAAD' CG' A' A'
X F'J' IA' IG"A' CF EA' IA A I' EIA' IFJ' BAA'' CIF NAJ'
G "J' BA' IA'' CGDD AJ' G' PA PA F'' GB" G' ' #IA'
JAE AJ' 7 'G""KE' G' EA' I E' 'M" A'CA' G' B 'N' IA ' G'
CGDP"K ' >A' D NI ' A"'' IA ' X IF ' FE' DF A E' CG "J' BA'
P G AJ' EIA' CG "J' '' 'G' FK' J ECIF NA' IA EA"M' GM' IA'
D JA ' M' IA' 9ANA' ' G ' IA' ?ANA' E' M A'JE' IFJ'
BAA'' PF AE' G' ' F"EG' IA 'N " ' J J' 'G ' A(C EA' IA E
' FE' DPGEE B"A' IG ' G MA'CA' G' 8GJ' F'J' CG'L
EC A'CA' X G' BAF ' EG' MF ' I' F' D JA AEE' FE' G' AE G A'
IA ' G' IA ' AE F A ' $IA' 9 'N" EI' 8G A 'DA' ' CG "J' 'G '
JG' ' F'J' G "J' 'G ' F""G ' F'G IA ' !G A ' G' JG' /'
F'J' M' EIA' CG' ' AJ' GBE 'F A ' X IA ' C DA' D E ' BA'
'G M AJ' G' IA' G "J ' $IA' R AA'' GM' #CG E' IFJ' P BL
" C"K' "F J' "A' G' IA' 9 'N" EI' = G ' ' F'J' IFJ' 'A A '
DFJA' EF EMFC G'' MG ' IF ' G'N' ' G "J' BA' IA AL
MG A' MGG" EI' F'J' CI "J EI' G' EA ' IA ' F ' " BA K ' F'J' N A'
IA' GPPG ' K' GM' E 'N' M AEI' G B"AE' I' IA '
M A'JE' FB GFJ ' $IA A' G "J' BA' F' C '' F ' '' #CG "F'J'
I G NI' IA' >FD " G'E' F'J' IA ' CI "J' X CG "J' IF A' 'G'
"G'N' CG' ' F'CA' FD JE ' IA' MFC G'E' IA A ' "'' IAEA'
'CG' A' A'CAE' 'G "J' BA' ADAJ AJ' BK' IA ' FBJ CF G'
$IA' P AEA'' G JA ' G "J' BA' DF ' F 'AJ/ IA' ! 'CA'
G "J' BA' B G NI ' P' '' 9 'N"F'J ' F'J' AJ CF AJ' I' F'
P GEPAC ' GM' E CCAAJ 'N' G' IA' 9 'N" EI' C G '

' ,@ I$B: 9' >' 7 'G""KE ' 2 :D: 8 B:<' >' # >@@ C' :<:' $ '$? :< 9>; F9 '$ ='
6 D ' $G" ' 9$ ' $ '? <C ' 9 :' %; : : ' 9$=' : =:='
' + ; :' >? $' 8 : 8 >< $@ ' 6 :D @ C' >' H<:CC' ?><' $ ' $ C :<' &' @: :<' C'
B$ = ' 2 :D: 8 B:<' K Y 6> > .' ' :7 $ ' =$:=' > :' =$ ' B:?><:' 6 :D @ C'
6$@ F ' 6 ' 8 ; : '?<> 8' ,@ I$B: 9' >' 9 :' %; : : '
' >; @=' C: : 8 '$C' ?' 9 :C:' = <:D > C >?' ! D> C ' < : ' $C' ?' 9 :<:' :<:' >

' C" M IA FJ CA MF "AJ G P GJ CA E AMMAC ' ' FE I ' AJ
510 IF ' # ' @ F'C E D NI ' K IF ' CG "J IA JG'A IK
Z:DH8B:< F'G IA ' ADG F"' ' %G" G' ' 'JA ' CIF NA GM -G J
#C GPA ' IA R AA'' GM #CG E FE E "" CGDPF F A"K
FDG'N IA 'M A'JE ' M EIA FE CF AJ JAAPA ' ' G IA
AF"D ' F'J OAP ' '' P"GEA ' CG'M 'ADA' ' F ' $ B K

C;D9' ; =:<9$ =' H;<H>C:C' $ ' $@@ ' 9:' > @ 'C;CH D >;C'?:$;<:' ' 'B: F' 9:' D>8H@ 8 : ' >' 9:' ' C9>H' >?' '>CC' 9> $C' : =:=' >' 9$E:' B:: ' 9:' B:$<:<' >?' ' &C' 9:' ' C9>H' = =' > ' F>' @@'C>8 :'=$ C' $? :<' 9:'@: :<' $C' H<>B$B@ ' :E:<' C: ' B ; ' ' C' >< 9' H<:C:<E F'$C'C9> F'9> ':7 <: 8 :@ ' ; D:< $ ' ,@ I$B: 9' $C ' $C' >' 9> ' C9:'C9>;@=' H<>D::=

' + $=$8 :' fC>' ,@ I$B: 9' <> :Z Y ' S 9 @: ';<'D$;C:'9$ 9'B:: '9:<:' <:$ \ :=';H> ' :' 9>;F9 ' ' >' ::=?;@' >' < :'$ 9 F' 9:<:>?';' >' >;'C;H\ H>C F' $@ $ C' 9$ ' >;<' D>8 8 CC \ > :<C' >;@=' 9:<:>?'$=E:< C:'$C' 9: ' C$ 'D$;C:' & =' > 'C D:' 9: '9$E:' B<>J: ' 9 C' D> ?:<: D:' B ' <:?;C F' >' 8$J:'$ C :<' $C' 9: 'C$ 'B ' >;<' D>8 8$ =8: ' $ =' ?><' 9$ 'H;<H>C:' 9: ' <: ;< ' >' >;' $@ 9>;F9' :' 9 J' >;'C9$@@'B ' 9:8'H:<D: E:' 9:' 9>@:' H<>D::= FC ' : ' :' D$ >' BE ' @: ' >;' ; =:<C $ =' 9$ ' $C' :' 9$E:'B:: 'E:< 'C><< '>?'@> F' 8 :'?><' >;<' 8 C9$HC' $ =' F<:$ ' <>;B@:C'C>' ? =' :' >;<'C><<> C' > '=>;B@:=' ' B:9>@= F' C;D9' 9 FC' $C' $<:' H<>\ =;D:=' >'H<>E:' >;<C:@?' D$;C:' >?' $@@' 9:' C$8 :' $ =' >;<' F< :?' 9:<: ' C' $@C>' D<:$C:=' ' 9$ ' :' = =' > ' 9 J' $ ' $ ' 8 :' >' 9$E:' C:: ' ><' 9:$@='C;D9' 8$:<'>?'C>'F<:$ '$HH:$<\ $ D:' >' D9$<F:' $ =' D> =:8 ' >;' .:E:< 9:@:CC'B> 9' '?< : =C9 H' $\ ;<:'$ =' ;C D:' :' $<:' 8 =:=' >' D>E:<' 9:C:' 8$:<C' $ =' C $ ' >;<' ;=F8: ' $ =' >'F$ 9:<' $ 'C: C: 9:<:>?' >' >;<' H<: ;=D:'B:?><:' ' 8$ ' @:$<' >?' >;<' =<:D' $ C :<' 9:<:; >'$DD><= F'$C' >;<'D>8 8 C\ C> :<C' ; =:<C >>=' >;<'=<:D'8:$ \ F' >'B:'$ =' $C' :' <;C' 9:' @@ $=E C:' >;' ?><' >;<' 9> >;<' >'$F<::' >' 8$J:'$ C :<' C>' C;<:@ 'B> 9' $C' $' 1< D:' $ =' :$<' D>;C ' 8>C' :$< :C @ '$C' :' 8$ ' ' :<8C' >?' ?< : =C9 H' :' <:L; <:'$ =' D9$<F:' >;' > ' >' ?><B:$<' ?<> 8' $ C :< F' $ =' ?><' >;<'H$< '$C' :'$<:'9:$< @ 'C><< ' $ =' =C8$:=' >' ? =' C;D9' 8$:<C' >?' >;<' D9$<F:' C>' C9$@@' :' B:' $C' 9:$< @ 'F@$=' $ =' :@@' D> : :=' >' 9:$<'>?'C; ?D : ' 8$:<'?><' >;<'=C\ D9$<F:' &@ 9>;F9' :'=>;B ' >'B;' >;'$<:' :@@'D:< ? :='>?' 9:'=@F: D:' $ =' D$<:' >?' >;<' 8 C :<C' 9$E F' >;<' D>8 8 CC > ' :' D$ ' :' >' B;' :CH:D $@@ ' >:' ; >' >;<'F>>=' D9> D:' >?' 9:' ' C9>H' >?' 5>CC' 9>' 9$ 9' >'> @ '?$ 9?;@@ '$ =' $< @ ' B;' $@C>' C>' D$<:?;@@ '$ =' = @F: @ ' B:9$E:='9 8C:@?' B> 9'H< E$:@ '$ =' H;B@ D@ '$C' :'D$ >'B;' ' 9 C'C><' D>8 8 : =' 9 8' ; >' >;' ' ?><' '>;<' ;=F8: ' :' 9 J' :'9$E:' >'$ ' 9$ ' ' @> $@ ' $ =' ?$ 9?;@ :CC' D$ ' >E:<8$ D9'9 8 ' $ =' 9 C' :'$<:' 9:' 9>@=:<' >' < :' B:D$;C:' :' $J:' ' 9:' B:C' < $@' >?' $' F>>=' C:<E$ ' >' B:' ' $=E:<C ' >;' >?' 9 D9' :' 9:$< @ ' C9 >;' >'B:' =:@E:<:='B ' ;C ?D$ > ' >?' >;<' >D: D ' ?><' > 9:<(E=C:' >' @B:< ' D$ 'H<>? ' >;' 'C F9 '>?' 9:' ><@= Y ' , ' 3R - $ ' 2:D:8B:<'K ' 5 '

=FE "A ' IA 'EP '" NI 'PA IFPE'BA' FDAJ' % '9" UF' H ' 2 '
'BA I' G "JN A' 'G'CGDDF'JE' #IA'A(PAC AJ'# '@ F'C E'
"" A'IA 'G IA 'EA F' E' G'FC 'G''I ;'G '' AEPG'E B " K' +ACADBA'
F'J' G''BA' J EF G AJ' M' IA' CG'EA H A'CAE' A A' 'CG'L
A' A'

) 'CA F" AFJK'# '@ F'C E' IFJ' BAA''DFJA' EA'GM' '' I E'
FK' >A' J J' 'G ' CF A' G' BMA'EG' AF AJ' F'EACG'J' DA
>A' FE'P GMG 'J"K'"GKF"' G'9" UFBA I ' >A'BA" A AJ' IF '
IA 'JA IF'J'PG" CK' I CI'EIA' FE'P E 'N' I' IA'
R AA''GM'#CG E' FE'P AC EA"K' IA'DGE'JF'NA G E' I CI'
EIA'CG "J' IF A'CIGEA''F'J' IA'P"F ''"F'N FNA' '' I CI'
IA'A(P AEEAJ' I DEA"M' EIG E' IF '9" UFBA I E' T ' E A E'
J J' 'G 'IAE F A' G' A"'" IA 'J EFN AAFB"A' IE

X' E' G CI 'N' I E' R AA' E' ADG 'N ' IA' G A
X'KG ' T FHAE K'F'J' T ' #AC A F K' IF A' EIAJ' 'F'J'
A A K'DF'' I 'OE' M''ACAEEF K'F'J' 'FD' P G GOAJ' G'
FOA' IA'DF A ' '' IF'J' IG ' E MM C A' ' F F' 'FE'
'J J' F' =F " JA' % ' M' 'D NI 'EPAFO' I' A A A'CA'
KG ' T FHAE K' IF I' JAF"' I' IA' ADG 'NE' BG I'F'
=F " E"A' F'J' 'G 'FNF ' 'FE' IG NI'KG ' T FHAE K' G "J'
N"FJ"K'F"'" FE' A"'' 'EG' IF ' ' FE' 'G I 'N'"G'N'GM'KG L
EA"M' 'J'E A"K'KG ' T FHAE K E'MG BAF 'N' G'FEE E' E'
F' =F " E"A' I'KG 'E MM C A' 'F IG K \ MF'CG' F K'
G'G ' A(PAC F G'E \ IF I' E COA''' IA' IGPA' GM' DF 'L
A'F'CA' F'J' NGGJ' BFCO 'N' GM' DA' ''KG 'EA CA 'EG'MF '
M GD' DK' IAF ' IF ' ' EIF"'" 'A A ' BA' EG' IF JK' FE' G'
FJ A' A' PG'' E CI'F''A' A P EA'FNF ' ' IG 'E ML
M C A' ' F F' ' BAMG AIF'J' MG ' IA' FCCGDP" EI DA' '
IA AGM' 'J' I E' A(FDP"A' FJJAJ' G' J A E'G IA 'A(L
PA A'CAE' IF ' 'IF A' IFJ'F'J' EAA''E 'CA'KG ' T FHAE K E'
A N' ' IF I' DFJA' DA' IA' 'G A' G' MAF ' KG ' T FHAE K E'
AE F A' M' F'K' EIF P' G B"AE' EIG "J' IFPPA'' G' F EA

' ' 9:' *<: ' ' ! $? ?><=C9 <: ' 9> ' ?><' ?<> 8' ' ; < > '
, 3 d ' ' ' &' &

TOU 2:D: 8B:<

* IA A I BA 'N J EQ A AJ FE EG BG"J BAMG A IA A' F'CA GM IA N AF CG'E " F G' G FJ EA KG TFL HAE K G "FK IA IG"A B JA' GM I E A NI K DF A PG' KG MF IM " CG 'C ""G E F'J G A'CG FNA F'J DF ' F ' F'J BFCO IAD BK KG TFHAE K E MG""G 'N GM IA AEG" G 'E M ""K F'J IG""K IG JA"FK G F" A F G'/ MG M KG TFHAE K FM A KG NGGJ F'J MF IM " CG 'C ""G E IF A AEG" AJ EIF" J ECG FNA IAD BK E FK 'N KG FEEA' IA A ' G ' F" IA PFEE G'E GM KG D 'J BA EF EM AJ IA' IG KG MF IM " EA F' E DFK BA J ECG FNAJ IA ABK G E F'J KG F KG 'AAJ E JG B M " G F IA MAF M " MG DA G CG'E JA

>G MF AJ I IA G IA PF GM 7 'G""KE 'E CL G'E "" BA P AEA' "K EAA' TAF' I "A IA D'FAJ F A CF EA GM IA R AA' GM #CG E MG DAJ B F PF GM 9" UFBA I E PA P"A(AE/ F'J A A' E ' IA A IA "F'JE A A' E ' IA 9 'N" EI =IF' 'A" A A' E MF F FK ' IA 8 "M GM TA(CG CGDB 'AJ G FN F A KA M IA IA PFEE G'E GM I CI 7 'G""KE EPGOA E M G'N A PQ ' G I E F ' 'NE GM JF'NA F EA AE GM A A EAE IFJ J A' =G'JA BFCO M GD IA -G A< F'J IA ! 'CA GM) F'NA ' IA A IA "F'JE IFJ MF AJ ECF CA"K BA A IF' I E B GL IA >A IFJ FOA' I E I K IG EF'J 8A DF'E G A IA TA EA A(PAC 'N IF IA CG ' K G "J EA G' IA #PF' F JE F'J IF " F G "J BA MG CAJ ' G F BF "A $IA CG ' K "FK Q A "" " F IFJ BAA' M E JAMAF AJ/ F'J " F O'G 'N IF DA G "J M NI MG I D F'J IF IA ! 'CA E ECF' K M 'F'CAE G "J EGG' BA A(L IF E AJ JAC" 'AJ G M NI A(CAP F 'CA F ' FJ F' FNA $IA 8A DF'E FM A F'MA AAOE GM 'AMMAC F" DF CI 'N BANF' G D 'K F'J JAEA $IA ! 'CA IFJ G AL AF IG 'A A' IA IG'G GM F "GE A'NFNADA' /

F'J MAA" 'N IF IA !FP E E A A I E AF" A'AD AE F'J #
IF DF A AJ" "A G I CI 'F G' IAK BA"G'NAJ TOU
IA IG NI F M E GM C GEE 'N @ F'CA F'J HG ' 'N 2:D:8B:<
=G'Jb % I E DA' AM EAJ G MG""G I D F'J F IA
' A GM IA CG'MA A'CA F * AE D 'E A IA FE MF"" 'N
BFCO ' G FEEF BF'O P EAWA 'AJ ' MG 'A F'J
AP F G') ' "F'J F"" FE NG 'N ""/ G' F'G IA
A"ADA' IG A A IA ! G AE F' E MG 'J BA A MG 'A
$IA GCAF' NF A F IGDA G IGEA IGD IA "F'J IFJ
AHAC AJ F'J 7GCIA""A BACFDA IA A'JAU G E GM IA
@ A'CI + CI F'J9'N" EI P F AA 'N C EFJA E IG
' IA '" NI 'E M 'C EA E IG A AJ G 'J IA DG I GM
'F G EAFE F'J P AKAJ G' =F IG" C CGDDA CA 'JA
IF A A M"FN E F "AJ * I IAEA "F "AEE IA GAE
9" UFBA I E 8G A 'DA' IFJ F 'F F" FMM ' K TGE
GM IA AEEA"E IFJ BAA' B " ' 9'N" EI KF JE G A A
DF' 'AJ BK 9'N" EI E BHAC E $IAK A A CF K 'N
G' dF F 'G CGE G IA = G ' FNF 'E IA NA'A F"
A'ADK GM IA 9AMG DF G' F'J A '=AC " FE ACG'C "AJ
F "FE G DA' IGEA DF F J 'N JG 'NE A A CG A AJ BK
IA M"FN GM F ! G AE F' P 'CA =IF ""G' E D EE G' G
-G'JG' FE G PA E FJA 9" UFBA I M PGEE B"A G A'A
IA F"" F'CA GM TOK G MG NA >F A F'J E D EMG L
'AE F'J G EA IA GPPG ' K G'CA DG A G ACG A
=F"F E G EGDA G ' I CI EIA D NI IG"J FE EAC K
MG IA AE G F G' GM =F"F E $IA ADP F G' FE
E G'N AEPAC F""K IA' IA @ A'CI 8/G A 'DA' EIG AJ
EN'E GM MF G 'N TF K # F 9" UFBA I F"OAJ
DA FPIG CF""K G -F TG IA@b'A"G' GM IA " G' E'F A
NA' "A F'J EGM ' '"AEE P GKPOAJ F'J IA' A B"A '
IA F'NA ! G F " IA ! 'CA GM =G'Jb E FJD F"
*A' F'J CFDA FDG'N IA 9'N" EI PG E F'J EG"J I E
P UA CF NGAE ' !"KDG I DF OA JD F" * ' A
I 9" UFBA I E G M"AA FE P APF 'N MG EAF F'J

, ' A'JAJ FE FE BA" A AJ G CF K DG'AK PG JA F'J
TOU F DE G 9GCIA""A
1 D$8B:< 9" UFBA I IA EA"M IA' -F TG IA P AEEAJ IA C"GEA"K
GM CG EA 'E E AJ IF EIA IFJ 'G E CI DAF' 'N FE FE
DP AJ G IA #IA J EF G AJ F"" ' A AE ' =G'Jb/ M
IA E BHAC E EIG AJ MF G G IA P F AE EIA EF J IF
FE IG IA O'G "AJNA F'J FNF 'E IA G JA E
-F TG IA AD 'JAJ IA IF EIA IA EA"M J J 'G G"A L
F A G A" N G'E ' 9'N"F'J/ EIA G NI 'G G BA
E P EAJ IA AMG A M IA@ A'CI 8G A 'DA' MG""G AJ
IA A(FDP"A #IA EF J _F'J IA F'E A FE ADF OL
FB"A& IF Ib PG" CK ' A" N G E DF A E IFJ BAA' G'"K
G OAAP IA PAFCA/ M =F IG" CE F'J ! G AE F' E IFJ
BAA' F""G AJ IA EAPF F A EA CAE IAK G "J IF A
BAA' PA PA F""K M NI 'N F'J M IA R AA' DG IA
IFJ CG'E " AJ IA ' IA M E 'E F'CA EIA G "J IF A
FJ EAJ IF FE FM A F"" BG I PF AE G EI PPAJ IA
EFDA 8GJ G'A EA CA G IA G IA EIG "J IF A BAA'
P GI B AJ ' @ F'CA # 'CA IA R AA' DG IAM IFJ
P AMA AJ G F ADP G"A F G' G "J IF A BAA'
BA A M IA A(PA DA' IFJ "FE AJ "G'NA #IA
'JA E GGJ IA J MM C " K IG A A #IA IFJ 'G EKDL
PF IK I IA > N A'G E F'J EIA E AJ IF IA
JAMAF E I CI IAK IFJ E E F 'AJ G "J BA F "AEEG'
A A K IA A G E BHAC E IG GGO P F DE FNF 'E IA
! 'CAE

V A F"" I E DAF' ' 'G I 'N A(CAP EG MF FE F FE F JAL
EC P G' GM IA P 'C P"AE GM 9" UFBA I E G '' NG A 'DA' '
=IF ""G' FPPAF AJ GPA' "K F CG $IA P GBFB " K GM
F F I @ F'CA FE M AA"K F"OAJ GM F'J IA JAE FB"AL
'AEE GM FE J EC EEAJ F'J FPP G AJ BK IA =G 'C "GM
!AA E IG IFJ DA F IA >FDP G' =G =G'MA A'CA

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$IA PA G' GM IA ! 'CA GM) F'NA MG 'J 'G MF G 2$
I IA R AA' >A IFJ P"AFJAJ G' IA N G 'J GM F TO
CGDDG' A" N G' F'J IA JF'NA G 9'N"F'J M GD IA 2:D:8B:<
DPI GM IA #PF' F JE ' IA -G =G ' AE $IA
9'N" EI 'GB"AE J J 'G ACGN' EA IA JA' K GM A" N G'
$IAK A A DGE GM IAD A"" 'C" 'AJ G #PF ' F'J
) F'NA GB F 'AJ 'G I 'N A(CAP EGDA M F EAJ BK
E BEC P G' MG I D ' IA ! G AE F' CI CIAE NF 'E
@ F'CA G' IA G IA IF'J IA A FE IA G"J 'F G'F"
F' DGE K $IA G 'J GM =F"F E FE E "" M AEI F'J
F'O" 'N F'J IG A A E G'N D NI BA IA MAA" 'N GM
DA' "OA 'JA" F'J G MG"O FNF 'E IA > N ^'G E
IA PF G ED FE 'G ' "" 'N G E BD G F' F"" L
F'CA I IAD M IA"GE HA A" CG "J BA AP"FCAJ ' IA
9'N" EI F F
 # CI FE IA NA'A F" EA' DA' GM IA =G 'C" F'J
 FE P GBFB"K EIF AJ BK 9" UFBA I =AC " G'"K
IG NI J MMA A' "K =AC " F"G'A GM I^R AA' E FJ EA E
CGDP AIA'JAJ IA A BAF 'N GM 9 GPAF' PG" CE
$G I D IA ACG A K GM F E 'N"A PGG G ' FE FE 'G I 'N
CGDPF AJ G IA E FOA MG I CI IA N AF NFDA FE
BA 'N P"FKAJ/ F'J =AC " EF IF IA AF" A'ADK GM 9'NL
"F'J FE 'G @ F'CA B #PF ' @ F'CA A' ' IF"M
BK IA C " F D E A IA G"A F A IA ?AMG DA E G
A(IF E IA E A'N I ' IG"J 'N IAD JG ' #PF ' A AC
' AJ =F IG" C ' IAF F'J ' A""AC F'J B"FU 'N I
A" N G E A' I E FED \ #PF ' M EIA CG'Q A AJ ! G AEL
F' ED ' IA A IA "F'JE G "J EGG' FE) F'NA EF J
CG'Q A ' 9'N"F'J F"EG
 FE J"A G EFK I E G MIA ! AA E F >FDP G' =G
MG IF"M GM IAD JAE AJ 'G I 'N BA A IF' ! I " P E
E CCAEEM " ' A MA A'CA =AC " IA AMG A CG' A' AJ I DL
EA"M I' I G 'N GBy FC"AE ' IA FK GM IA Q F A"
I' @ F'CA $IA A FE 'G E MM C A' P G GCF G' IA

TOU
2:D:8B:<

#F J $ I AK A A 'P APF AJ M I AK BANF' I @ F 'CA @AK D N I IF A #PF ' G' I A IF 'JE F"EG BAMG A F"" FE G A = G 'Jb D N I BA FEE E AJ 'J AC "K B GPA' F FE ' 'ACAEEF K F 'J JF 'NA G E -A CAE A F 'J !ADB GOA A' I I D F 'J I AK GGO I A R AA' F"G 'N I IAD # I A G"J -F TG I A @b 'A"G' IF FE "G 'N FE I A Q AE G' FE DA A"K BA AA' E BHAC F 'J EG A A N' E I A G "J 'G ' A MA A/ M I A =F IG" C !G A E A' A AJ ' G I A "G 'N F"OAJ GM "AFN A FNF 'E I A EA"M I A' B G '"K I A' E I A G "J DFOA F CG ' A "AFN A F 'J M N I G I A Q F A"

E ANF JAJ #PF ' F 'J FE F DAF 'E GM F "AFE 'L J AC "K I A"P 'N) F 'NA =AC "" FE P APF 'N MG F' FC GM JAEPA F A F JFC K G I CI BK EGDA 'O'G ' DAF 'E I A I FJ GB F 'AJ 9" UFBA I E F F' $ I A E G K 'E G I A #PF' E I TF '

"" BA ADADBA AJ IF ! I " P E 8G A ' 'A' G' I AF 'N IF # `GI' >F O 'E FE P APF 'N G' F "F NA ECF"A MG F I J GKFNA G I A * AE 'J AE I FJ N A' MG DF" 'G CA G 9" UFBA I IF '"AEE I AEA B CCF 'AA 'N A(PAJ G'E A A P GI B AJ EA G E CG 'EAL Q A 'CAE G "J MG""G # `GI' I FJ BAA' EA' MG BK I A =G 'C " I A I FJ BAA' AP DF 'JAJ A 'HG 'AJ G AEPAC I A "F E I CI C"GEAJ I A PG E GM I A #PF' E I =G"G' AE FNF 'E '" CA 'EAJ FJA E F 'J JA # " F FE G"J IF ! I " P E I G "J IF A 'G M I A 'N G 'J MG CGDL P"F ' 9" UFBA I IG A A IG I FJ "A' >F O 'E E I PE GM I A G ' F 'J I E FE ' A AE AJ ' I A FJL A' A ' A MA AJ A" C F' "K $ I A E"F A FJA FE EG P GM FB"A IF 'G' I A "FE GKFNA E I A I FJ AF" EAJ E (K PA CA' G' I A CFP F" I CI E I A F 'J I A =G 'C " I FJ EOAJ PG' > F O 'E PA E FJAJ I A

IF IA G "J 'G G'"K I DEA"M BA 'AJ M IA FE 2
P A A' AJ M GD EF " 'N B IF IA C A E IGD IA IhJ TOU
A'NFNAJ M IA 'AJ IAD FJ M G "J BA X J A' G :D: 8B:
D EA K F'J X BA AFJK G CGDD F'K MG""K >A P GL
D EAJ IF X IA G "J N A 'G GMMA'CA G IA "AFE GM
IA > NI 'AEE E F"" AE F'J M A'JE X $IA GKFNA I CI
IA P A A'JAJ FE G "FJA 'AN GAE ' 8 'AF F'J EA""
IAD ' IA * AE 'J AE ' CO GM NG"J PAF "E F'J
ADA F"JE IA AGM IA JG B AJ 'G B G B 'N IGDA
N AF FB 'JF'CA G IA CG' A' F G' GM IA > NI 'AEE
F'J IA BA'AM GM IA IG"A AF"D

$IA EF"A GM 'AN GAE ' IA * AE 'J AE BA 'N IA
A K I 'N I CI ! I " P FE DGE JAE G E G P A A'
 FE 'G A K C"AF IG CG "J BA P GEAC AJ FE
''GCA' "K FE >F O 'E P A A'JAJ > E F N DA' E
IG A A G IA N AF 'AEE GM IA ADP F G' EF EM AJ
9" UFBA I E EC P"AE ') C GBA TOP IA EF "AJ M GD
!"KDG I I M A A"" FPPG ' AJ AEEA"E G'A GM IAD
IA R AA' E EI P X `AE E I CI CF AJ I E M"FN G' I E
M E GKFNA/ F'J FDG'N IGEA IG A' I I D FE
IA FM A IA G GM 9 'N" EI I E G K I E KG 'N X O 'EDF'
9 F'C E + FOA

$IA GKFNA IG NI CGDDA'C 'N I F E G D FE
P GEPA G E BAKG'J IA DGE N" A 'N IGPAE I CI IA
IFJ MG DAJ PG' I E PFE E CCAEEAE >F O 'E F' JG '
G # A F -AG'A IA A IA MG DAJ F' F"" F'CA I F
BA I CI A A F F I F 'A NIBG 'N BA >A
EFCOAJ F JA'EA"K PAGP"AJ G ' F'J FE A F JAJ I
FE DF'K P EG'A E FE IA CG "J E G / F'J BK IA EP 'N
GM IA MG""G 'N KAF IA FE FDG'N IA #PF' EI EA "AL
DA' E JG 'N F B E 'AEE I CI AF" EAJ IA "JAE J AFDE

e> ! , ! M H JG FJG * IA A A PP E A A GPA' IA MG 'J F'
TOU AFEK DF OA / IA A IA NG A 'G F ADP AJ G OAAP
I D G IA MG CAJ F' A' F'CA FE E F" F' J MG 'J IA
P"F' A E !' "AEE > 'N G JAF I' I D # FK EI PE
A A E GPPAJ FPC" P" 'JA AJ IA A IA CF NGAE A A
G I IA EA U A 'J I E BAMG A IA E DDA FE
GKA IA IFJ FDFEEAJ ' BF E GM NG"J F'J E " A '
P AC G E E G'AE F'J G IA CGDDGJ AE P GPA K G I
D A IF' F . G' PG 'JE % AMG A IA CG "J EF M
MG 9 'N"F' J IA EI PE BG GDE AQ AJ F ECG 'N
$ IA XEPF E IFJ E MMA AJ ' F NF"A GM 'J ' IA 8 "M
GM TA(CG IA BAN ' ' 'N GM #AP ADBA IA AMG A
IA P ' G # `AF' JA - U G AM FOA ' F A F'J
P G 'E G'E F'J J EPGEA GM MG I 'J AJ 'AN GAE X IA
BAE F'J CIG CAE ' I CI IA IFJ IF E "" ADF 'AJ
'EG"J

$ IA IF"CKG' AF IA FE FBG G C"GEA ' F G 'FJG
$ IA EDF"" IF BG GM `AF' JA - U E MG DAJ BK F
'F F" B AFO F A I CI " AE FC GEE IA DG I GM IA
BFK $ IA JFK FM A IA 9 'N" EI EI PE A' A AJ F #PF 'L
EI M"AA FPPAF AJ G E JA CG 'E E 'N GM I AA' DA' GM
F IA EDF""AE GM IAD"F NA IF' IA X `AE E' F MG CA
M GD I CI ' IA GPA' EAF AECFPA D NI IF A BAA' PGEL
E B"A B I I CI 'JA IA MF AE CG 'J G 'E '
G "J IF A BAA' DFJ 'AEE G IF A EG NI F' A 'NFNADA' '
M >F O 'E CG "J IF A DFJA P I E D 'J G J EP A IA
A' F'CA GM F #PF' EI FJD F ' G G'A GM I E G '
IF BG E IA BA" A AJ IF IA CG "J IF A EF AJ I DEA"M
MG IA CIF' 'A FE 'F G F'J IA A'ADKE ' DBA E
G "J N A I D 'G FJ F' FNA % ' 'A IA I E G ' 'G

' / $ @< C <$:C 9 :' C9 HC $ =' ' ! GCAEE' F' J'A(FD 'F G ''GM > F L
?<: F9 ' >F: 9 :<' $C' >< 9' B:?><:' O 'E' GKFNA ' ' ' G"'
9 C = C$C :< < U G' 8 (# ' " ' '
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9" UFBA I E 'NA' K CG "J I A/ ' A' AJ Q P ^ A(MG 1(
F ' FC GM E CI JAEPA F A 'EG"A 'CA BAE IA G "J HHAN
BA B"GCOFJAJ F 'J EGG 'A G "F A J "J IF A G ' +ACADBA
$IA #PF' F JE PFEEAJ ' F 'J F 'CIG AJ C"GEA G ' HGF J
IA 9 'N" EIDA ' @G I AA JFKE IA A FE F ' D A
CIF 'NA GM FDB N G E CG AE AE) ' IA MG I ! I " P E
FJD F IFJ EF EM AJ I DEA"M GM >F O 'E JA' K
>A IFJ BAA ' AEPAC F""K EA ' PG ' I E CGFE G "GGO/ MG
I D/ F 'J BK IA "F E GM 'F G 'E IA E 'Q AE G 'FB"K
H E M AJ ' AF 'N IA 9 'N" EI CGD DF 'JA FE FP F A
$IA MG D GM CF"" 'N G ' I D G E A 'JA FE J EPA 'EAJ
I $IA 'FDA GM >F O 'E FE EG A B"A IF IA
#PF' F JE JF AJ 'G N A I D F ' 'N IF IA FE G BA
F FCOAJ $IAK GGO PGEEAEE G ' GM IA DG"A ' IA JF O
F 'J DG ' AJ BF A AE PG ' / F 'J IA ' M GD EIG A F 'J
EAF A A K N ' I CI CG "J BA B G NI G BAF GPA 'AJ
PG ' IA X `AE E F 'J IA CGD FJAE $FOA ' BK E P EA
MG DF 'K GM I^ BGF E C A E A A ' IA G ' IA 9 'NL
" EI MG NI EG JAEPA F A"K IF G GM IA "F NAE GM IA
#PF' EI EI PE A A E 'O F 'J F 'G IA EA G ' M A $IA DA '
G ' EIG A MG CAJ IA FK G ' BGF J G IA CGDPF' G 'E/
F 'J 'G IE F 'J 'N IA ADA 'JG E GJJE IA AE " GM
IA FC G ' E " EAADAJ 'CA F ' IA ' IA #PF' F JE
EA ' JG ' G M A EI PE F 'J IA ' >F O 'E EF IF
F" FE G A F 'J IF AEEA"E F 'J AFE AE A A "GE
$IA G '"K IGPA 'G FE G EF A IA DA ' $IA E G E
GM IAD A A C G JAJ G ' BGF J G EDF" A 'JA E G 'A
GM M M K G 'E IA G IA F IA "F NA F 'J "AF 'N IA
X `AE E F 'J IA G IA EI PE IA NG"J F 'J E " A BF E
IA 'AN GAE F 'J IA G IA EPG "E G B ' G E 'O IAK
C F "AJ G 'JA IA M A GM IA DG"A F 'J NF 'AJ IA
GPA ' EAF $IA A IA PGE G ' ECF CA"K EAADAJ "AEE
JAEPA F A $IAK A A EIG GM MGGJ F 'J F A $IA
AEEA"E IFJ E MMA AJ IAF "K 'JA IA M A/ I^K A A

TOU
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, C" GOAJ P I DA' F' J IA A FE 'G F IF BG AE GM IA "F' C IA A IAK CP "J A' A G 'H F I 'L J AJ EAFDA' G" ' AA AJ G FOA IA CIF'CA G' EIG A EGDA"AFN AE J E F' JG ' IA CGFE F' J FM A F' JA 'N D EA FB"K ' IA GGJE MG F MA JFKE IAK A A FOA' F' J CF AJ FE P EG'A E P TA(CG >F O 'E F' J + F$EA F' J IA AE DFJA EF "MG IA 9 'N" EI =IF' 'A" I CI ' J A DA ' G ' F' J A CIAJ P" NI IAK CG' AJ G AFCI F' J IA A F E 'N "F E F A GM I 'NE FE F F 'N IA F F"

$IA + OA GM " F IFJ A(PAC AJ IF IA F E GM IA A IA "F' JE G "J PFK IA G ' A(PA'EAE >A IFJ P GD EAJ ! I " P IF F E AFD GM NG"J F KF J JAAP EIG "J M"G ' ' G IA #PF' EI AFE K M GD IA CG'M EL CF AJ IGF JE GM IA IA A C FJA E >A IFJ BAA' "AEE E CCAEEM "F FE F M 'F'C A IF' FE F EG"J A $IA PFK GM I E F DK FE DF'K DG' IE ' F AF $IA GGPE IFJ G' C G AE B IAK IFJ NF 'AJ 'G P" 'JA BK IAD F' J A A MFE B AFO 'N ' G JF'NA G E D 'K #G P AEE 'N A A IA + OA E J MM C " AE IF ! I " P IFJ BAA' GB" NAJ G BG G IF"M F D "" G' GM DG'AK M GD G BF'O 'N IG EAE F 8A'GF $IA BF'OA E IFJ AE FB" EI DA' E ' IA A IA "F' JE B IA B "" G' IA A IFJ BAA' J A' F FK G B AJ F' J IA CG'L FC I ! I " P AQ AJ IAD G JA" A IA "GF' ' E " A JG""F E F ' A P FE IA AMG A EA' G 'J BK EAF IA CIAE E MG N AF A EFMA K BA 'N J JAJ FDG'N DF'K AEEA"E $ G G I AA F' IA NF ' "A GM IA =IF' 'A" ' EFMA K B 'MG DF G' GM IA P UA NG 'J FDG'N IA P F AA E $IA P AC G E M"AA IFJ BAA' CIFEAJ ECF A AJ F' J J A' ' G IA 9 'N" EI IF BG E F' J IA AFE A MG I CI " F FE EG DL PF A' "K F 'N FE I J 'N ' @GK !"KDG I F' J #G IFDP G' $IA BFEO 'N EIF OE A A P G " 'N G

E JA G' IA FMCI G EA UA IAD M IAK A' AJ G 2
EF " F'J FE IAK MAF AJ A A 'G F F"" '" OA"K G `TO#
E'F CI IAD ME IAK "FK F F'CIG @ F'CAECG + FU 2:D: 8B:<
IA CFP F ' GM G'A GM IAEA AFE A EI PE IA' IA
A' A AJ !"KDG I IF BG MG 'J I AA' @ A'CI
C EA E IA A I IF"M F JGUA' 9 'N" EI CG'EG E
CF K 'N IA M"FN GM IA ! 'CA GM =G'J1/ IAK *A A
FO 'N 'E ' NI F'J JFK G ECG IA =IF' 'A"/
IA CGDD EE G'E P GMAEEAJ G ADPG A IAD ' IA
EA CA GM 8GJ G EA UA F'K =F IG" C EI P IF IAK
CFDA FC GEE G IF A A 'F G' BA"G'NAJ $IAK
B G NI ' IA P UAE 'JA IA AKAE GM + FU F'J
EG"J IAD IG ' A MA A'CA M GD IA F IG AE IA
DFKG BA 'N G'A GM IA DGE MG F J P CIFEA E >A
BANF' G MAF IF IA FE ' IA G"ME JA' M GD I CI
IA A FE 'G AECFPA F'J IA A IA G "J BA JA G AJ
M IA ADF 'AJ f 'J IA IFJ F EPAC F' N G 'J MG 'L
AFE 'AEE # `GI >F O 'E IFJ 'G KA A 'AJ 'G
F'K 'A E GM I D/B IA J EFE A F # `AF' JA - U
FE O'G 'G'BGF J IA #PF' EI EI PE/F'J FE IA DGE
D ECI A G E GM/ IA C EA E F !"KDG I A A G 'AJ BK
* "" FD >F O 'E # `GI' E B G IA f IA #PF' F JE
MAF AJ IF '"AEE IAK CG "J A(CF A IADEA" AE BAMG A
IA I CFDA G EIG G O G "J BA DFJA I
IAD $IAK O'A IF IA D NI BA"GGOAJ MG F'K JFK
$G P !"KDG I ' NGGJ I DG IA AMG A G'A GM
IAD IG P GMAEEAJ G IF A H E A 'AJ M GD IA
'J AE P A A'JAJ G B 'N IA 'MG DF G' MG I CI

X "N 'GE JA "GE P F FE 'N"AEAE
FA' 'F CF F JA DF CF JA" =F '
J ' =BF ""G'Q A AE JA A' -G'L
J AE K A' 'GDB A JA" ! 'C PA JA
=G'JA K J C A'JG Q A PG EA C G
JA + GE JFBF " CA'C F PF F Q A GL
BFEA'K PA E Q AEA' GJGY "GE 'F GE

K NA' A JA "GE =F BG" CGE JA C'F"Q A
'FC 'Q A M AEA' 9E G G JAC h
'DA CFJG(' AEPF[G" Q A IFB F "A JG
'F JA "FE J CIFE CF FE JA DF CF
G S I b K
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, " A G ' FE "G'N 'N F'J J AEEAJ I E F"A G M"F A IA
'F G'F P JA F'J N F MK IA F F CA GM >F O 'E
M A'JE F'J MFD "K # `GI ' IFJ BAA' ' IA A'CIF' AJ
NF JA' GM "FJJ P F'J IFJ "GFJAJ I DEA"M I NG"J
F'J HA A"E >A IN J FOA' F EI P I u J CF E/
IA IFJ EFCOAJ F G ' F'J IFJ FOA' 'M ' A IAFPE GM
PAF "E F'J HA A"E IA A # #PF' EI M"AA MG K MG
EF "M GM IAD IFJ PFEEAJ F IF BG IA A IA FE J AEEL
'N I E EI PE $IA CFP F 'E IFJ IA"J F CG 'C "M GM F
G CG'E JA IA P JA'CA GM F FCO 'N I D B IA
JD F"M IFJ EF J X MG IA EI PE IF 'BA ' IA IF BG
" "M 'G JAF"M I IAD MG IAK B 'N DG'E G E
EI PE "M E 'O EGDA GM E F'J P E G IA G EA
IA AMG A"A E JAPF 'G' G GKFNA/ F'J EG IAK J J
X $IA G E BGK ' IGEA EI PE D NI BA F CFP F ' MG
CIAE F'J IA #PF' F J X EIAJ G 8GJ IA IFJ BAA'
G'A GM IAD

$IA P"AFEF' E G K FE P"AFEF' "K ACA AJ D NI
IF A F'E A AJ E A'J IFJ IA A BAA' DA MG G O
B IA 'J I CI B G NI IA MFB"A B G NI IA I
BAI 'J $ G JFKE "F A * "M FD >F O 'E EA' G
=AC "M IA 'A E GM IA AF"M CF FE GPIA 9" UFBA I IFJ
"GE IA A' A B M EIA FE BG"J EIA D NI ACG P
IA EA"M F ! I " P E CGE ! I " P FE IA E G K FE
'G G"J IFJ GBBAJ IA E BHAC E GM IA T FHAE K/ X IA
T FHAE K D NI 'G DFOA E FK GM 7 'N ! I " P E AFE A
"M ACGDPA'EA FE DFJA/ G X M J J'G P"AFEA IA
T FHAE K G DAJJ"A ' IA DF A F" IG NI EIA IA EA"M
FE IA N AF AE "GEA IA A ' KA >F O 'E IGPAJ
X IA T FHAE K G "J N A IA E BHAC E "AF A G DAJJ"A
I X ' IF FK IA G "J 'G G'"K IF A AL
CGDPA'EA G IA A DGE JG 'N FE NGGJ EA CA FE

E 7 @ ' 'L*? . #'0 *" < ("* 8

CG "J BA JAE AJ I " "A CGE B X IA "GGOAJ F"EG #
G P"AFEA 8GJ IA A MG IA #PF' F JE A A 8GJ E TOU
A'AD AE 2:D: 8B:<

 " "A"F A F EDF"" F A AJ BF O EF "AJ E"G "K ' G
!"KDG I @ F'C E + FOA IG"F'JAJ M GD IA GJA
PGE G -G'JG' I JA F "E F'J * "" FD >F O 'E
EA' BK I E IF'J F ECIAJ "A GM IA P GPA K JAE GKAJ
F'J AQ AE AJ "AF A G FC G' IA CGDD EE G' I CI
IA IA"J M GD IA ! 'CA GM=G'Jb
 E J MM C " G EAA BK IF AFEG' 'N IAEA AE A '
EF "G E PA E FJAJ IADEA" AE IF G'N IFJ BAA' JG'A
BK IA #PF' F JE '"AEE A A\ I CI FE A K'D CI
IA MFC \ IF IAK BA" A AJ IF IA ' A EA FE IA E
G JG IF IAK P"AFEAJ I =AC " P GBFB"K FE 'G
'JA I E DP AEE G'/ B F FE F' GPPG ' K F F
C CF" DGDA' G FEE E IA ! 'CA GM) F'NA G C PP"A
" F G P ' EI ! I " P MG IA A(P "E G' GM +GC G
TF' F'J DG A IF' F"" G A'J 9" UFBA I E FC ""F G'E
F'J MG CA IA ' G IA BG"J PGE G' I CI FE EAADAJ
G I D IA EFMA K AQ AJ IA G FEE DA $IA "GEE GM
DG'AK G CIAJ IA G IA Q CO $IA P GM I CI EIA
IFJ EG 'AF "K NF 'AJ ' # `GI' E 'MFDG E FJA EIA
ANF JAJ FE EGDA I 'N GM IA G ' GM I CI EIA IFJ
BAA' GBBAJ #IA CG'E " AJ IA % EIGP GM #F" EB K
F'J IA A(CA""A' `A A" CG'M DAJ IA IAG K IF 8GJ
G "J BA P"AFEAJ G EAA IA #PF' F JE P" 'JA AJ F'J
I "A F' ' DF G' FE EA' G) F'NA IF F J A E G'
G "J BA DFJA ' I E MF G =AC " FE F""G AJ G
CG'E " IA CA FJD F" GM IA * AE # I =IFD

 S @@ $8 / $ J C >6:D @ 2:(=:CH$D9$=> $@ 6> =: 1$@$ > $@
D: 8B:< M 2>D >< ; > C; 8 C8> $F: :
_ !;H: : <: $ >@$:7>< $D > L; : =$=> $8B [$E C> $@ 1< D H: =:
:@ B CH> =: !$<:B:< F<$ =: 9:<:F: <$ F: Y # J
9$B@$ 9:D9> X :C $ 5 $ H$<$ L; : - #c TOQ
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, PCDG 'A FE G IA DGE CG' A' A' DAF'E GM AMMAC 'N IA EA U A # I ' I E KG 'NA JFKE IFJ BAA' CG'CA 'AJ I # ! A A =F A ' IA AE A ' E 'N FNF 'E R AA' T F K IA FE 'G ' GMM CA 'JA 9" UFBA I F'J E 'N I E F IG K MG EGDA I 'N DG A IF' CG'L ' F'CA F IA AN "F JG 'NE GM IA P F AA E $I AA EI PE GM I E G ' I CI IA IFJ M AJ'G F +F DG I A A C E 'N I ! G F " 'JA CGDDF'J GM I E EG' >A' K IF A K DGDA' ! G F " FE GMMA 'N I D o J CF E MG I E P F A FJ F' FNA M IA G "J EI I E AKAE I "A IA AFE A FE CF AJ GMM MG =G' Jb % # I E PF G ED IFJ BAA' E G'NA IF' I E C P J K X# CI F DFEE GM DG'AK IA CG'CA AJ G BA DGE M MG IA R AA' E T FHAE K F'J 'G G BA A' A P EAJ BK F E BHAC >A P"FCAJ F N F J G A IA #PF' EI AEEA"E 'E E 'N IF IA CG "J 'G A(PGEA IA R AA' E 8G A 'DA' G IA AP GFCI I CI G "J MF"" PG' M IA NGGJ F"" AE 7 'N ! I " P E E BHAC E E MMA AJ G'N ' 9 'N" EI F A E / F'J IA AP" AJ G =AC " E "A A ' '"F'N FNA I CI EIG AJ EGDA 'E NI ' ' G I E G ' EG A A N' E CIF FC A >A FJD AJ IF IA A FE 'G E MM C A' P A A(MG GPA' G"A'CA $IA AEEA"E "FK ' F PGE G' IA A IAK CG "J 'G BA C G BK IA P F AA E X IG E"F'JA 'N GM IA# F A VA IA A A FKE ' I CI IA I 'N D NI BA JG'A F'J KA 'G MF " F FCI G IA 8G A 'DA' X M ' EIF"" EAAD NGGJ G KG >G'G # I G A X IF ' I G IA E EIF"" N A IA F ADP MG IA ACG A K GM IA AFE A G IA T FHAE K E EA I CI CF' 'G BA IG B"GGJ ' "" 'G G '"K' FOA ' '' IF'J G BA B G NI G NGGJ AMMAC B F"EG ACA A IA B"FDA IA AGM ' G DKEA"M G IA A'J EG N AF F CGDDGJ K EIG "J AJG 'J G IA 8 FCA / IGP 'N IF FM A B A E G DE GM IA J EP"AFE A EIG AJ F IA BAN ' ' 'N G CG"G

IA MFC EIF"M 'J IA CF"D GM IA MF G ' E CI # TOU
EG FE FD DGE "" 'N G IFUF J DKEA"M G EA A 2:D:8B:<
IA TFHAE K 8 AF P K A A IF E CI F BGG K
EIG "J AECFPA IA 8 FCA / F'J E A"K FD GM IF D 'J
IF F'K I 'N FOA' M GD IF COAJ 'F G' E BG I
'ACAEEF K F'J P GM FB"A G G CGDDG' AF" $IA
"A A A'JAJ I IA CA FJD F"E GMMA GM X I E BGK
>A' K G BA IA 'E DA' GM IA A(P"G
I JG B "AEE G "J IF A DFJA C"AF' G O/
B 'MG 'F A"K 'G DG A IF' IF"M IA AFE A FE
' IA AE A ' IF BG E $IA AE FE ' #G IFDP G'
F A / F'J IA =G M IAK GGO F'K GM A A
JA A D 'AJ G FOA F"" * I "A =AC " FE IAE F H'N
IF G JG G 9'N" EI P F AA E EF " 'N 'JA IA
M"FN GM IA ! 'CA GM) F'NA B G NI ' G !"KDG I
EGDA #PF' EI F'J !G N AEA P UAE EF J G BA G I
K J CF E +G' 8 A F EA' ' F CGDP"F ' G
9" UFBA I F'J F IA EFDA DA DA' G'AJ IA DG'AK
F'J A(P AEEAJ F"F D MG E EFMA K 9" UFBA I IG
PA IFPE IFJ 'G KA DFJA P IA D 'J G FOA
GMMA AJ I DF'K FPG"GN AE MG IA 'EAC K GM IA
EAFE A IA G B 'N 'G A "F'J G -G'JG' F'J F'EPG
M IA'CA G " F G G EA'J EGDA GM IA G ' EI PE G
CG' GK I G NI IA =IF' 'A" $IA FDBFEEFJG IG
IFJ IAF J DG E GM ' A'JAJ D ECI AM FCCAP AJ IA
EACG'J F" A 'F A FE IA "AFE JF'NA G E >A IF'OAJ
IA R AA' MG IA M A'J" 'AEE F'J IFJ J E' EEAJ IA
E BHAC M GD I E D 'J IA' IA IAF J IF F @GK
!"KDG I F'J #G IFDP G' IA AFE A IFJ BAA'
E D " F'AG E"K EA UAJ B G NI G' EIG A F'J P"FCAJ

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6:D@ 2:D Q CC;:=@: :<C >? 8$<L;:

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, ' JC N F J IA C A E F AE AJ F J IA EI PE JA F 'AJ #A'J 'N F DAEEA'NA G' IA 'E F' G " F +G' 8 A F A' G IA R AA' MG F' A(P"F'F G' AAO PFEEAJ BAMG A IA CG "J BA FJD AJ G F' F J A'CA 9" UFBA I IA' G"J I D 'G G BA F"F DAJ $IA F JFC K GM IA P F AE IFJ GB" NAJ IA G FOA IA DG'AK 'JA IA G ' CIF NA B IF G "J BA OAP ' ' PA MAC EFMA K +G' 8 A F ' IA EFDA G'A FCO'G "AJNAJ IA O 'J'AEE B IJ EF J IF IA + OA GM " F FE ' NA' ' 'AAJ GM F'J' IA BANNAJ IF D NI BA MG F JAJ IG JA"FK

9" UFBA I P"FKAJ IA PF F O F J"K G "J IF A BAA' BA A M EIA IFJ EF J F M E IF EIA DAF' G EFK A A' F""K IFJ BAA' FECA F 'AJ IF IA DG'AK IG NI FOA' P BK ! I " P FE IA P G PA K GM IA 8A'GAEA " FE JA" A AJ F ' A P M A IAE F 'N F MA D ' AE EIA EF J IF EIA IFJ IA EA"M GCCFE G' MG F "GF' $IA FNA' E GM IA G 'A E

A<$ D:CD> 2 $I 9 ;C =:CD< B:C 9 :' CD: :' $ '1@ 8 > ; 9' * 9 :' E D:(' $=8 <$@ >? 9>C:' H>< Cz 9 :' C$ C' $'C: '?><;C'$ =' C C :=' 9$ '$C@> F' $C 9 :' <:$C;<:' $C > ' 9>$<=' 9 :' D>;@=' > ' B:' $ C :<$B@:' ?><' C' C$?: ' ' $ =' 9$ ' ?><' >;<' > 'C$J:C' $C :@@' $C' >;<' 8$C :<C ' 8 ;C ' B:' ; @>$=:='$ ' 9 :' H>< C' S :'=:D@ :=' >' D> C: 'C>' 9 :' @:? ' ;C' ; =:<' F;$<=' $ ' 9 C' > ' 9> C:' : ' >' >;<' C9 HC' 9' 9 C' H:>H@:' $ =' >>J' ?<>8' 9 :' 9>@=' C 7 (?>;<' D9 :C C' >?' C @E:<' 9 D9' 9 :' =:H>C :=' ' 9 :' > (9$@@' &' ?: ' =$ C' $? :<' 9 :' C:$<D9 :=' '@ J :' 8$:<' $@@' 9 :' !H$ C9' $ =' A@: 8 C9' C9 HC' ' 9 :' 9$<B>;<' B<>J :' ;H' 9 :' D$<F>:C' $ =' >>J' >; ' 9$:E:<' 9 :' H@:$C:='C 8 $@@' $ =' F<:$ ' / :' @@;::=' >;<' C$ @><C' B:$ F' C>8 :' 9<> F' > 9 :<C' >' 9 :' C:$' $ =' 9: ' = C < (9; :=';C' $@@' ' = ??:<: 'H< C> C' C$ \ F' 9$ ' :' C9>;@=' B:' 9 :@=' >' :7\ D9$ F:' ?><' 9 :' , F@ C9 8 : ' 9>' 9$='B:: ' $J: 'B ' 9 :' !H$ $<=C' ' $CJ:='9 8' 9 '9 :' ;C:='C;D9' D<;:@ ' 9' >8' + $:C $'C;B :D C' 9: ' !H$ ' $ =' , F@$ =' :<:' $ ' H:$D:G' / :' >@=' 8 :' ' >;F9 ' >' 9$ J' 9 8'?><' B: F' 8><:' 8 :<D ?;@' 9$ ' 9 :' 2 ;J :' >?' &@E$ ' 9>' 9$=' D; ' >?? 9 :' 9 :$=C' >?' = E:<C' , F@ C9 8 : ' ' A@$ =:<C' !>8 :' >?' >;<' H$< ' 9 :' C: ' ;H' >' 3> => ' $? :<' $@D F' ?<>8' ;C' $@@' 9 :' 8 > : ' :' H>CC:CC:=' * 9 : ' :<:' 9<;C' >' $' H< C> ' 9 :<:' 9 :<:' 8$ ' = :=' >?' 9 ; F:<' $ =' = C:$C:' 9 @:' 9 :<: DC' :<:' C: ' >' H<:$D9' 9 :' 9 :$ 9 : 'F>CH:@' >' 9 : 8 Y O 6' 'S ' 'IN$ ' ' ' '

' -G'JG' A A "" 'N IF EIA EIG "J OAAP +G' 2
8 A F I A' FE G' EIDA' I CI FE P GBFB"K TO
'MA N'AJ JAC"F AJ IF IA DG'AK IFJ BAA' EA' BK +ACADBA
I E DFE A G PFK I E GGPE >A G "J 'G BA" A A
IF 9" UFBA I FE EA G E 9" UFBA I IG A A G "J
N A I D 'G G IA F'E A $IA 8A'GAEA EIA EF J
D NI "A J IA A IAK P"AFEAJ M IAK P AMA AJ
IA G IA 7 'N GM #PF ' IA IFJ 'G NI G CGDP"F '
+G' 8 AMF FE t F A FE IA FE IF NI K J J 'G
FE A I E DA ' ADG'E F'CAE $IA EA U A EG MF FE
IA CG "J"AF ' 'G N 'F AJ ' IA JA A D 'F G' GM =AC
G E PPG IA ! 'CA GM) F'NA !"F"M IA DG'AK FE
G BA EA' G IA ! 'CA G A'FB"A I D G F EA F'G IA
F DK/ IA AE FE G BA EPA' ' JG B" 'N IA 9 'N" EI
M"AA G DA FE G BA "GE $IA 9 'N" EI FJA
I @"F'JA E IG NI J D ' EIAJ FE E "" IA DF '
EG CA GM IA AF" I GM IA -G'JG' DA CIF' E +G'
8 A F J A P F E F ADA' GM IA C C DE F'CAE '
#PF' EI F'J 9 'N" EI I CI IA C C "F AJ ' IA C K
F'J EA' I E EAC A F K ' F E M BGF FC GEE IA =IF' 'A
G NA " F G DDAJ F A AP EF"E -G'JG' IA IGPAJ
G "J D 'K F'J MG CA IA R AA' G K A"J
$IA + OA G IGD IA "GEE GM IA DG'AK FE F
EA G E 'CG' A' A'CA AQ AJ 'G N 'N/ BK F'
G JA 'E F' F'J E DDF K A A K 9 'N" EI AE JA' '
IA -G =G ' AE FE F AE AJ A A K 9 'N" EI EI P FE
EA UAJ IA CF NGAE EAQ AE A AJ F'J IA C A E DP EG'AJ/
CG A E EPAJ FC GEE @ F'CA G ! I " P IF IA ADBF NG
D NI BA A(A' JAJ G #PF ' F'J F"K BAMG A IA 9 'NL
" EI CG "J FOA IA F"F D F'J M"K

' 4 ; :<$;' =:' ,CH:C >' 19 @ H ' 2 :\ D< 8 $:' H@; =:<' C>8 :' B>7:C >?
D: 8 B:<' P' $ =' $;$< ' ' 2 :' ,CH:C C :: 8 :$ C :<:' >@D: ' 9 D9' 9 :'
>' 9 :' 2 ; J :' >?' &@E$ ' 2 :D: 8 B:<' M ' 2 ; D9 :CC >?' &@E$' 9$=' : ' >' 9 :<'
' ' ' '! >; 9$ 8 H > '$$ 9 ; CB$ =
:@@' $C 1@ 8 >; 9' 9 :<:' $C = C('
, 2 d ' ' '' '

TOQ
`F' F K

EAADE IF 9" UFBA I IFJ A(PAC AJ IF IA A(C EA
G "J BA FCCAP AJ IF EIA CG "J FCCGDP" EI EFMA"K BK
F CO IF EIA G "J 'G A' A G F ADP BK MG CA
* IA' EIA MG 'J IF EIA IFJ MF "AJH IA IAF MG F
DGDA' EF'O $IA CF FE GPIA EG "G'N I AF A'AJ
IFJ CGDA F'J #PF' IA G"J F""K IGEA CG''AC G'
I 9'N"F'J IFJ G " AJ EG MF IA EIGCO GM IA
9AMG DF G' FE F' A'ADK F "FE % FE GG
"F A G A A A F" F G K AJ C FE EE AJ """
#PF' F JE F'J IA "F'JA E ' 9'N"F'J MG 'J IADL
EA" AE P EG'A E $IA G JA GM F AE FE A(A'JAJ G
IA =IF''A" IA A A A K AEEA"G 'AJ BK F E BHAC GM
! I " P FE JAC"F AJ " FB"A G EA U A A"A A' G C"GCO
G' F `F' F K ' NI IA DFKG F'J F"JA DA' A'
G 'J G IA DA CIF' E IG EAE EAF"AJ P IA F AL
IG EAE F'J CF AJ IAD GMM GD IA BAJE G IA @"AA
@ NI A'AJ MFD " AE GM #PF' F JE C G JAJ MG P G ACL
G' G IA DBFEEFJG $IA PG E A A C"GEAJ/ +G'
8 A F E G '"A A E A A ' A CAP AJ F'J IA I DEA"M
G P APF A MG IA G E B ' E CI GM I E PFPA E FE
A A JF'NA G E
$IA DDAJ F A FJ F' FNA '' IA F AE FE "F NA"K
G' IA E JA GM 9'N"F'J/ A A' IG ! I " P E E " A
IA F" A GM IA #PF' EI F'J @"AD EI NGGJE JA F 'AJ
MF A(CAAJAJ IF IFJ BAA' EA UAJ BK " F VA IA
DF''A ' I CI IA B AFCI IFJ BAA' B G NI FBG
FE 'G C AJ FB"A $IA E PP AEE G' GM FJA C AF AJ
NA'A F" J "ECG' A' '' -G'JG' F'J F' FMM G' EG GPA'
G F' F""K CG "J 'G B EAAD GBHAC G'FB"A G IA G"J
9'N" EI !AA E IG "GGOAJ G') F'NA FE F ABA" F'J
CF AJ" "A MG IA IA A CE IGD " F FE B ' 'N F'J

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BAIAFJ 'N $IA 'A Q AE G' I CI IFJ F E^' 2 '
J JAJ PF AE' ' IA EFDA" 'A G' I CI IAK IFJ BAA' TOQ
F" AFJK EAPF F AJ BK IA CF EA GM IA R AA' GM #CG E *(*'
$IA P GEPAC GM F F I' #PF ' O 'J"AJ IA IGPAE GM
IA =F IG" CE F 'J DFJA IA M A'JE DG A F'(G E IF'
A A G EAC A ! I " P E ' A AE MG IA $IA % EIGP
GM ?GEE G"J +G' 8 A F IF F"" IA 'GB"ADA' IG
A A ' A AE AJ MG I E D E AEE G "J E F'J BK #PF '
' IA P AEA' Q F A" TF K # F IA EA"M EG EF'N 'A
FE EIA EA' I D G J IF M IA 7 'N GM #PF ' G "J
IA"P IA EIA G "J ' I AA DG' IE BA R AA' GM 9 'N"F'J
F'J DFEE EIG "J BA EF J ' A A K CI CI I G NIG
IA E"F'J/ F'J E AF" IK "F'N FNA GM IA EFDA O 'J
BANF' G BA EAJ G I D BK 9 'N" EI ! AA E IADEA" AE
+G' 8 A F E 'E C G'E "AM I D 'FB"A G A' A ' G
F'K A'NFNADA' E ' TF K # F E ' A AE E/ B ' 'JA
IA 'A C C DE F'CAE IA IA"J I DEA"M F " BA K G IAF
IF IA M A'JE IFJ G EFK/ F'J IA 9F " GM G I DL
BA "F'J CFDA G'A ' NI G I E IG EA F'J IFJ F "G'N
CG' A EF G' I' I D . 'MG 'F A"K MG IA =F IG" C
CF EA F' F O F J Q F A" IFJ F EA' FDG'N IA 'GB"AL
DA' DGE 'C" 'AJ G -G J+FC AE GM F G I IA
CIAE F'J DGE PG A M " GM IA 'G IA ' !AA E IFJ
J AJ IG F DF"A IA "AF 'N G JF NI A E > E
JG IFJ DF AJ IA + OA GM G MG"O F'J J AJ F"EG
F MA DG' IE "F A "AF 'N I D IA N F J F ' GM IA
CI "J A' CCG J 'N G F'C A' EFNA IA +FC AE
AE F A G "J IF A NG'A I IA "A G IA "F A "G J E
B G IA -AG'F J % G MG"O ' 'G MG I E F JE EFOA
A' A"K B G EAC A IA EP"A'J J' 'IA F'CA ' I E

' '3$' #> $' =:' ,CD>D $' = 7e' $@' =:' F@$:<<$' '@$' 8 C$' C:' D:@:B<$<X'
D< $=>' 8 e' =<[C' $@' , 8 B$ $=><' H><' >=$:@@$ % ' G ' '
L ;:' C 'C ;' $8>' 8 :' L ; :<:' C>D><<:<' $;$< 'U(' ' '
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9" UFBA I E E CCAEEG / B =AC " F'J T FK IFJ CG'L
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GM IA 9F " GM >A MG J #CG "F'J FE BA FKAJ \
BA FKAJ MG ""K BK T FK \ G IA F'C A' F'J ' F F"
A'AD AE GM IA AF"D $IAK IFJ BAN ' I F ADP L
'N G PA E FJA IA X G A'G 'CA IA C G ' B 8GJ
F'J NGGJ #CG CI IAF E G "J P G JA F ADAJK X '
IA EP 'N IAK G "J IF A IA"P GM IA M A'JE
TAF' I "A IAK D E P GC"F D T FK E AFEG' '
A A K CG 'A GM IA "F'J F'J IG"J IA ABA"E ' CIACO
" MG A N' F J EIG "J CGDA

9 A K G J GM I E"A A FE MF"EA/ B IA R AA'
GM #CG E O'A IF G "J F'E A E DDAJ F A P L
PGEA ' E 'N #CG EI P JA/ F'J F IA EFDA DA
F'J G P A A' M IA G B"A I IA CFEOA "A A E F
PF K GM VG OEI A =F IG" CE IA G G'E GM G G'
=G'KA E F'J G IA E 'JA GGO G ' A CAP T FK G'
I E A ' G IA %G JA O " I D F'J JAE GK IA PFPA E
>F 'N I E M AJ TFUK # F I 'A IGPAE IA
% EIGP A' FNF ' G -G'JG' G CG'CA M IA
DAFE AE I I E M A'JE FDG'N IA !AA E > E M E
E AP FE CIF FC A E C F'J C G E >A FE F F A IF
9" UFBA I FE IF ' AJ BK IA EPAC A GM F PGEE B"A

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`F' FK +ACADBA M GD'!F E IF X BG I'@ F'CA F'J#PF ' IFJ
I ' BA AF"D F P FC CA MG IA F" A F G' GM A" N G'
F'J IA FJ F'CADAM GM IA R AA' GM #CG E G IA
C G '/ F'J * F"E 'NIFD CGD DA' 'N PG' G =AC "'
CG "J B EFK IF X ' IA J E G'E A N' 'N ' 9 'N"F'J
IA A FE "AEE JF'NA ' ' MAF 'N GG D CI IF' GG
" "A F'J IF IA A FE 'G I 'N DG A JF'NA G E IF'
EAC K ' G'CA I "A I E D E AEE FE ' A' 'N F
" A GM G'A EG ' IA % EIGP GM ?GEE CGDPGEAJ F'G IA
G G O G' 9" UFBA I E MAF E G AF ' IA N F JA
F'J G I G IA GMM IA N F J BK I E EAAD 'N M F'OL
'AEE > A FJJ AEEAJ I DEA"M G -G J 'JA" FE IA
DADBA GM IA =G 'C " I G NI IGD G "J BA DGE
AFEK G FPP GFCI' IA ! A EF J IF F EAC A IFJ BAA'
A AF"AJ G I D I CI' I E FMMAC G' MG 9" UFBA I'
MG BFJA I D G CG'CAF" ! A CG "J 'G BA E"A' IA'
IA EF JF'NA FPP GFCI 'N IA $IA 7 'N GM #PF '
IFJ J AC AJ IA + OA GM " F F'J+G' 8 A F X G AF
F'J CG'C" JA I' IA R AA' GM #CG E MG IA DF FNA
' I AA cEA A F" FKE $IA 7 'N GM #PF ' GMMA AJ IA
A" IA IA CIJ OA =IF "AE G +G' `GI ' GM E F
G M EIA P AMA AJ I DEA"M) ' IA FCCAP F'CA GM
F'K G'A GM IAEA E G E IA FE AFJK I' IA IG"A
MG CA GM #PF ' G AP"FCA IA G' IA G ' I G'A F'J
G DF ' F ' IF A A ' A AE EIA PGEEAEEAJ ' IA
I G'A GM 9 'N"F'J $IA + OA GM " F' IFJ EA' F'
FNA' G' 9 'N"F'J G EAA F'J CG'E " IA $IA % EIGP
EF J IF IA IFJ I DEA"M EAA' I E DF' "AF 'AJ I E
A F'J F'J 'JA FOA' G"FK IA Q AE G' BAMG A I E D EL
AEE / B IA MG I E G ' PF EIAJ IA F" FKE G EAA
'9" UFBA I' IA G' "K P ""F F'J G EAAO 'G G IA M A'J

'E AFJ GM CF K 'N IA DAEEFNA G %G" G' IA AMG A 2 '
IA IFJ JAE AJ 'JA G CGDD ' CF A G IA R AA' TOQ
GM 9 'N"F' J #IA D NI EA MG IA BAE CGDDGJ K $;$<
F' J IA E AJ G IA IG'G IF EIA G "J ''G BA FK
I D

' IA P AEA'CA GM IA AF CG AEPG'JA'CA BA AA'
! I " P F' J+G' 8 A F F' J BA AA' ! I " P F' J IA + OA
GM " F DFK BA EF J I CA F ' K IF ''G FNA' IFJ
BAA' EA' M GD @"F' JA E G' F' K E CI B E 'AEE IF
'G E CI 'E C G'E IFJ BAA' EA' G IA #PF' EI DL
BFEEFJG F' J IF ' IA IG"A E G K IA A FE 'G G'A
PF C"A GM I " F FE G'"K JAE G E GM PGE PG' 'N G
F G J 'N F F F' J ! I " P IFJ 'G KA B G NI I DEA"M
G ANF J IA R AA' GM #CG E FE F PA EG' I IGD IA
CG "J A' A F ' F' K O ' J GM CGDD ' CF G' 'JA" '
IG A A CF AJ IA % EIGP E 'G A G 9" UFBA I/ IA
IFJ PA IFPE FEE E AJ ' CGDPGE 'N =GD 'N FE
J J M GD IA R AA' GM #CG E CG'M JA' F D ' E A
F'E A AJ E P PGEA CGDP"A A"K ' JACA 'N 9" UFBA I
IF DG' UAJ B GG A" I IA G ' F"F DE F' J
I IA G"A' F AE E F' J AP EF"E/ F' J -G J
'JA MG""G AJ P IA AMMAC I CI IFJ DF' MAE "K
P GJ CAJ BK "FK 'N ' 'N BAMG A IA I E G '
GBHAC G'E G A(ADA DAFE AE FNF 'E T F K' # F
#IA CG "J 'G B EAA IA EF J IA JF'NA G I CI BG I
EIA F' J 9 'N"F' J A A A(PGEAJ/ IA 'A F" K M 'G IA
M A'JEI P GM #CG "F' J FE 'J EPA' EFB"A/ F' J IA R AA'
GM #CG E CG "J EIA DFOA F M A' J GM IA G "J BA F
DG A EAM " F""K IF ' IA 9F " GM T FK >A
TFHAE K E PPGEAJ IF M EIA P B" EIAJ IA R AA' GM
#CG E "A A E IA R AA' GM #CG E G "J BA X JAMFDAJ '
F' J J EF FCAJ F' J IA A G "J BA 'G DG A G B"A FBG

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OAAP' IA ' M GD' IA ' G ' ' B"FCOA ' 'N' IA ' F" E' AP FL
G ' ' FE' F' DAF 'E' GM P G AC 'N' IA EA"M' FNF 'E ' IA ' P AL
A 'E G 'E ' $IA' R AA ' ' GM' #CG E' IFJ' PG A M '" M A ' JE' ' '
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$IA' CG ' K' FE' F" AFJK' ' ' EA G E' PA " ' F ' J' ' G "J'
BA' MF ' BA A ' M' A DE' CG "J' BA' F F 'NAJ' I' T FK '
F 'J' IA' R AA ' ' GM' #CG E' BA' F""G AJ' G' A ' ' ' E'
'G ' F' E G 'N' PA E FE G ' ' MG ' G 'A' IF ' IF I ' F' C G ' ' IA'
FJJAJ' E N ' M CF ' "K ' X G' DG A' F 'G IA ' G'"AF A' IA ' C G ' '
MG ' IF ' IA ' E BHAC E' .' 'G ' BA' "AJ ' ' DFK' BA' F'
'A ' JGC 'A' ' ' #CG "F 'J ' B ' ' E' 'G ' NGGJ' G' BA'
F NI ' ' ' 9 'N"F ' J '
$IAEA' "FE ' G JE' D E ' IF A' G CIAJ' 9" UFBA I ' G' IA'
Q CO ' #IA' IFJ' DFJA' P' IA ' D 'J' F' MA ' JFKE' BAMG A' G'
DG A' E F NI MG F J ' 'JA"E' F N DA ' E' MG 'J' IA '
F" AFJK' F A 'N' F 'J' Q COA 'AJ' IA ' A AF ' #IA' IFJ'
M E ' FMMAC AJ' G' JAE A' 'G I 'N' B ' F' CGDP GD EA ' %K'
'E E 'N' G ' ' IA' P GJ C G ' ' GM' IA' "A A E' EIA' IFJ' JG 'A'
IA ' BAE ' G' DFOA' F' CGDP GD EA' DPGEE B"A ' I . A' EIA'
IFJ' DFJA' F ' ' A 'ADK' GM' TF K' # F ' MG ' A A ' G '
EIA' JAE AJ' G' MF"" BFCO' PG ' ' IA ' M E ' P"F ' ' #IA' FE'
" OA' IA' CFP F ' ' GM' F' AEEA" EAAO 'N' G' A ' A ' F ' ' ' '
O 'G ' IF BG ' IG ' I' G' CIF ' 'A"E' BAMG A' I D' AFCI '
' CF A' F 'J' JF 'NA G E ' F 'J' G' P "G E' AFCI ' FJ GCF 'N'
F' J MMA A ' ' CG EA ' CF ' 'G ' CIGGEA' BA AA ' ' IAD ' KA '
" E A 'E' 'G ' G' G 'A' F 'J' 'G ' G' F 'G IA ' F 'J' "" ' G ' N A'
P' IA' IA"D' G' A IA ' F 'J' EG' J AE' B" 'J"K' PG ' ' IA'
B AFOA E ' #IA' AEG" AJ' G' 'E E ' 'G' "G 'NA ' G ' ' IA' FBJ CFL
G ' ' $IA' R AA ' ' GM' #CG E' EIG "J' ADF ' ' R AA ' ' A N '

HG ' "K I IA EG' F'J EIG "J IA J A AE DA IA (
C G ' FBEG" A"K/ EIA EIAJ G'"K G DFOA IA P G
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IG CGDP "E G'

 FE 'G IA R AA' GM #CG E ' G FEE DA IA
I NI G'A #AA 'N IF 9" UFBA I FE FM F J G NG
MG F J EIA 'E C AJ IA % EIGP GM ?GEE G EFK IF
EIA FE AFJK G AP"K G IA CIF NAE $IA =G'L
MA A'CA IFJ BAA' E EPA'JAJ MG F MG ' NI / 'G I 'N
IFJ PFEEAJ ' IA ' A F" A(CAP I NI G JE I CI
A A MG""G AJ BK F CIF""A'NA BA AA' - 'JEFK F'J
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P A A'JAJ G BA" A A IF I E D E AEE FE E "" CF""AJ
PG' G FBJ CF A >A EF J IF IA FE CGD DF'JAJ '
IA 'FDA G AM EA $IA G "J G "J EFK EIA FE IA
G ' H JNA F'J EIA G "J BA FBIG AJ BK IA PAGP"A
GM IA IG"A E"F'J #IA G "J AJ CA IA EA"M G IA
F'O GM F P F A PA EG' F'J D NI BA P"FCAJ G' IA
F" #IG "J IA EG' J A EIA G "J BA EA FE JA F'J
BA ' PA PA F" MAF GM IA " MA A A FM A
#GDA G'A\ E 'CA F ' IG\ P GPGEAJ IF hIA
EIG "J ADF ' ' IA F'O GM F R AA' F'J P G E G'
D NI BA DFJA MG IA CG' 'NA'CK GM IA ! 'CA EJAF I
$IA % EIGP EF J IF MG 'G CG'E JA F G' G "J EIA
CG'EA' #IA G "J BA JAEA AJ BK IA M A'JE FB GFJ
F'J IA G ' E BHAC E G "J AF IADEA" AE G P ACAE
#IA G "J FN AA G 'G I 'N A IA ' MG D G E BE F'CA
I CI G "J DFOA IA "AEE IF' F A R AA' $IA
9F GM T FK F'J I E CG""AFN AE ' FCC E 'N IA IFJ
COAJ"K" AJ $IAK A A IADEA" AE IA M E ' A' G E

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F'J CG'EP F G E GM D JA EGDA GM IAD IFJ BAA' IA A(AC G E GM # IA FE P APF AJ G P G A IA G JE F'J EIA JADF'JAJ CGP AE GM IA CFEOA "A A E F'J GM IA G IA A JA'CA G A'FB"A IA G DFOA IA JAMA'CA

9" UFBA I FE "AM G DFOA IA BAE G IA G E GM IA PGE G' ' I CI EIA IFJ P"FCAJ IA EA"M A IA EIA 'G TF K # F ' A'JAJ G P E A IA A'Q K M IA TF K # F IFJ CG'EA' AJ G F'E A BACF EA EIA O'A IF EIA G "J 'G BA CF""AJ PG' G F'E A 9" UFBA I IFJ B G EF A IA G ' J N' K ' I CI EIA E CCAAJAJ DGJA F A"K A"" #IA EF J EIA G "J 'G AM EA IA CGP AE B BAMG A IAK A A P"FCAJ ' IA % EIGP E IF'JE EIA JAE AJ BG I I D F'J I E D E AEE G CG'E JA IF IAK A A JG 'N @ GD IA M E EIA X IFJ IA EA"M EIAJ G IF A IA R AA' E AF EA CGDA G IA BAE AM"@AC D NI MG IA G ' AF" X M IA EF J 'NE A A JA" A AJ EIA D E IA' GM 'ACAEE K DFOA F'E A IG F'K CF ""F G' MG "FCO GM FJD EL E G' G IA TFHAE K E P AEA'CA/ F'J BK IA F'E A E D E ''AAJE A'E A IF EIA EIG "J BA P G AJ A IA ''GCA' G C "PFB"A GM IA IG B"A C DAE GM I CI EIA FE FE KA B FCC EAJ F'J 'G CG' C AJ X M EIA EIG "J 'G BK IA F'E A E P G A IA EA"M ''GCA' 'G M IA MF G CG "J BA IG'G FB"K EIA ' G F JE IA #IA D E IA AMG A CIGGEA IA IA EIA G "J P IA IG"A DF A PG' J AC F" G IF A IA CF EA G IA L EA A'JAJ MG IA Q A 'AEE F'JXIG'G F"EG M EIA JA A D 'AJ G P GCAAJ EIA D E EA'J F JAC"F F G' X 'JA IA G ' IF'J IF M X EIA EIG "J 'G P G A IA L EA"M C"AF F'J M AA M GD IA C DAE DP AJ G IA EIA G "J IA' BA CG' A' G MG BAF AQ AE GM F'K MF G F IA TFHAE K E BF'JE) ' IA ACA P BK IA =G 'C " GM F PFPA G I E AMMAC A' F'J E N'AJ BK IA EA"M

CGP AE GM IA "A A E G "J IA' BA M ' EIAJ G IA F' J 2
M EIA FE MG 'J ' 'GCA' F" IF AFEG' CG "J AQ A TOQ
G "J BA DDAJ F A"K JG' A MG IA $;$<

E ' AAJ"AEE G EFK IF ' G E CI JAC"F F G ' FE A A
DFJA BK IA R AA' GM #CG E #IA IFJ F" AFJK IA
FJ F' FNA GM IA PGE G' #IA IFJ 'G AM EAJ G
F'E A F' J FE EFMA M GD A(PGE A I CI FE IA G '"K
JF'NA IF EIA MAF AJ T FK E P AEA'CA ' 9 'N"F' J
FE 'G"G 'NA ' 'ACAEEF K > A FE CF""AJ BAMG A IA =GDL
D EE G'A E F' J 'MG DAJ BK =AC " IF IA AFE IA F' J
I E M A' JE IFJ BAA' E DDG' AJ G F'E A BAMG A IA
R AA' GM 9 'N"F' J MG IA A G" FNF 'E IA EG A A N'
X G I 'N IFJ BAA' B G NI FNF 'E IAD I CI DL
PF AJ IA IG'G F' J F""AN F'CA/ 'G G' IA G IA
IF' J X IFJ F'K I 'N BAA' E MM C A' "K P GJ CAJ G
EIA ' FNF 'E IA R bA' IA #G A A N' IA ABK IA
R AA' GM 9 'N"F' J EIG "J CG'CA A G FOA F'K A "
GP ' G' GM IA R AA' IA NGGJ E E A MG F'K I 'N KA
EAA' $IA J EG JA AJ E F A GM #CG "F' J AQ 'N IA
9F " GM T FK E P AEA'CA IA A IA TFHAE K G "J ' G
JA F ' I D "G 'NA / X IA F' J I E FJIA A' E A A F
" BA K X G JAPF ' ' IA EFDA AE F A ' I CI IAK
A A BAMG A IA CGD 'N ' G IA AF"D
$IA DAF' 'N GM I E EA' A'CA FE A' A"K ' A"" N B"A
G T FK > A IFJ BAA' COAJ BK MF"EA P GD EAE ' G
B 'N 'N MG F J FCC EF G'E I CI IA G "J 'G IF A
DFJA '"AEE I I ' 'JA E F' J 'N IF I E E E A E
JAPGE G' G "J BA CG'M DAJ 9" UFBA I IFJ FNF '
DFJA EA GM I D MG IA G ' P PGEAE F' J ' A' JAJ G
AE G A TF K # F 'G ' 'G AE G A IA FE ' D NI E
IA M A CG' A' A'CA $IA P F A F F'NADA' I
CA F ' DADBA E GM IA 9 'N" EI =G 'C " G I CI IA

& C :< > 9 : =: 8$ =C >? 9 : % ; : : >? !D> C $ M :> @C
9$ = Y , - $

D D K

C" FE '' CG' EAQ A' CC ' J CAJ G CG' EA' ' F' J IA DAF' E BK
TOQ I CI HIA AECFPAJ M GD IA P"G I CI IFJ BAA' MG DAJ
$;$< MG I E D JA "" BA G"J ' IA MG"" G 'N CIFP A @G IA P AEA' F' J I "A E "" BAMG A IA =GDD EE G' IA AQ AJ BAMG A IA JAPF AJ G BA CG' M G' AJ I IA % EIGP GM ?GEE F' J -G J >A AE $IAK A A B G NI ' F' J IA A' Q AJ IA IA IAK ' A' JAJ G PA E E ' FCC E 'N I D GM IF 'N IFJ F EIF A ' IA D JA $IAK EF J IF IAK IFJ B G NI IA CIF NA F IA CGDDF' J GM IA D E AEE/ F' J IA' X IA CGP AE GM IA "A A E A A ' IA IF' JE X IAK G "J F' E A ' JAL MA' CA GM IA ' ' GCA' CA F' J G "J F"EG 'GD 'F A PF L C "F "K E CI PA EG' E FE A A N " K $IAK A A FEOAJ IA IA IAK G "J EPAC F"" K FCC EA IA 9F " GM T FK G IA IA IAK IG NI ' IA CG' EC A' CAE IF IA 9F " GM T FK FE N " K $IAK EF J IF IAK IFJ' G CA F' O' G "AJNA ' MG DF G' GM F G E O' JE IFJ AFC IAJ IAD B FE' G MG IAD G GMMA IA IG NI E F' J DAF' N $IAK A A FC 'N FE IA AP AEA' F AE GM IA D E AEE F' J IG M IA ' E C G' E IAK G "J EFK' G DG A

T FK GMMA AJ G FCCGDPF' K IAD G %G" G' IF IA R AA' M EIA JF AJ D NI FCC EA I D' IA P AL EA' CA % IA % EIGP JAC" ' AJ IA P GPGEF" >A O' A A K A"I IF FNF' E T FK EIA CG "J EFK DG I 'N #IA D NI IF A FCC EAJ TG G' GM IF 'N BAA' P K G IA CG' EP FCK/ EIA D NI IF A CIF NAJ TF "F' J I IF 'N E N' AJ IA BG' J F = F ND "" F / B G EAC A IA CG' C G' EIA G "J F"EG IF A EAC AJ IA G ' TF "F' J FE 'G IA M A' J F' J EIA AQ AJ I E EA CAE/ F' J TF "F' J IG I F G J CG "J IF A E "A' CAJ IA JAMA' CA F' J TF K # F IG IFJ 'G

DG A MG ' 'N I D '"AEE EIA FE J A' G C
JAEPA F G' P AMA AJ G BA D F""K E "A' TOQ
#G A D 'F AJ ' DPG A'CA F'J EA"M CG' FJ C G'
IA"G'N F'J EIFPA"AEE A'Q K T FK FE FB"A G
EFK IF IA FE F""G AJ G A ' G IA?ANA'CK $IA
M A'JE GM IA R AA' GM #CG E CG "J EFK IF 9" UFBA I
E "" AM EAJ G ACGN' EA I D FE ?ANA' F'J IFJ CG'L
MAEEAJ ' IA EA' A'CA IF IA R AA' GM #CG E N " IFJ
'G BAA' P G AJ $IA G "J F "F NA IA CG' 'A' F
CG E IG IFJ I IA G BA" A AJ IA G BA 'J EP FB"K
F PF K G IA D JA IA 9'N" EI =F IG" CE IGEA 'L
A AE ' IA E CCAEE G' J EPGEAJ IAD G BA" A A ' IA
' 'GCA'CA ' A P A AJ BK IA EIAE IA 'CG'EAC AL
'AEE F'J 'E 'CA K GM IA CG'C" E G' 9" UFBA I IFJ
JAE AJ G"AF A IA R AA' GM #CG E 'CG' C AJ KA I
F B"AD EIAJ AP F G'/ IA I IFJ BAA' MG CAJ PG'
IA !AA E F'J EG MF EIA IFJ NF 'AJ IA GBHAC / B
BAKG'J IA C C"A GM IGEA IG IFJ EAA' IA "A A E EIA
IFJ C AF AJ F' DP AEE G' IF IA R AA' GM #CG E
D NI FM A F"" IF A BAA' MF"EA"K FCC EAJ/ IF 9" UFL
BA I CG "J 'G CG'JAD' IA KA MG IA G ' E ' E A
GBHAC E AM EAJ G FCQ IA F'J IFJ FNN F F AJ IA
'H E CA GM IA DP EG'DA' BK IKPGC EK F'J PA M JK
=AC " IFE "AM ' 'G ACG J GM IA MAA" 'NE I I CI IA
'AEEAJ EG A CIAJ F AE " / B EG JF'NA G E FPL
PAF AJ IA R AA' E FC ""F G'E IF # @ F'C E 7'G""KE
'A(G =AC " IA DGE MF IM " GM IA D ' E A E BA" A AJ
IA ' 'G "G'NA CFPFB"A GM CG'J C 'N IA NG A 'DA'
X EAA IA G A X IF IA T FHAE K EIF"" 'A A BA
FB"A G F EA IA JACFKAJ C AJ ' 'G P" CO P IA IAF E
GM IA NGGJ E BHAC E 'G P A A' F'J AECFPA IA PA "E
IF F A ' A'JAJ G F JE IA ' '"AEE EIA JG A "K
N A G A IA NG A 'DA' GM IA X A NI K FMMF E ' G
IA DGE MF IM " CG t'C ""G E ' IGD EIA P E DGE

', '#PAC F"' E ' # A"K' M'IA ' TFHAE K' G "J' JG' EG' F'J'
TOQ BFCO' IAD' I'F'DA K'F'J'CG FNAG E'CIAA 'F'J'P '
`F' F K IA ' E ' '' 8GJ' MG ' IA' E CCAEE' IA'' ' G "J' 'G'
JG B'B 'EIA' EIG "J' IF A' FE'D CI'IG'G ' '' IA' A'J'
F'J' FE' NGGJ' EFMA K' IF"' FE' EIA' CG "J' AFEG'FB"K' EI'
F'J' JAE A' % ' M'IA ' TFHAE K' ""' 'AAJE' BA' IA' "A '
G 'IF"M' "A 'GM' IAEA' A NI K' FMMF E' IA EA"M' IA'' DK'
IGPA' GM' F'K' NGGJ' E CCAEE' E' C"AF'' G A I G '
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DF'' JF AJ' G' "FK' IA' I' BAMG A' 9" UFBA I' IA EA"M'
>A' G"J' IA ' IF ' I E' E G '' J K' FE' ! K' =G 'C ""G '
GB" NAJ' I D' G' P"F ' 'AEE ' $IA' + OA' GM' " F' FE' P AL
E D 'N' PG'' IA ' ' "" 'N'AEE' G'NG' G' F ' G'J EC AJ '
IA ' BAMG A' IA' G "J ' F'J' IA' CF EA' GM' #PF '' F'J' IA'
CF EA' GM' IA' R AA'' GM' #CG E' G "J' BA' " 'OAJ' GNA IA
XVG ' IF A' NGGJ' CG 'C ""G E ' IA' EF J ' XP G JA' '
E K ' CF AM "' 'G' JA" NI A E' '' F ' 'G ' P GJ NF"'
FE A E' GM' KG ' AFE A' VG ' TFHAE K' 'AAJ' 'G'
G B"A' KG EA"M' I'CFE 'N'GM' JG B E' F'J' J ECGD DGL
J AE' G ' GM' JF'NA G E' 'CG' A' A'CAE' IA ABK' KG '
DFK' J ECG FNA' IAD' G' E A CI' G ' IA' E 'A E' GM' IA '
E' G' AEG" A' DGE ' P GBFB"K' MG ' KG ' IG'G ' F'J'
EFMA K' ?F IA ' CG' F K EA ' KG ' TFHAE K' IFJ' 'AAJ'
G' A'CG FNA' IAD' I' CFE 'N' KG ' CF A' PG'' IAD'
F'J' FO 'N' IA ' AEG" G'E' '' NGGJ' PF ' F'J' G'
IF JA'' IAD' '' IA' P GEAC G'' IA AGM ' "AE ' G IA EA'
IAK' P" CO' '' IA ' IG 'E' F'J' EI 'O' '' IA 'E 'A E'
F'J' EG' "FK' IA' B JA'' M GD' IADEA" AE ' A IA ' IG""K'
G ' DF'N"AJ"K ' G'' KG ' TFHAE K E' BFCO' 'J' IA A PG''
D E ' 'AAJE' MG""G ' E CI' AE " 'NE' GNA IA ' GM' IA'
FMMAC G'E' PA BF G'E' F'J' PFEE G'E' GM' KG ' D 'J'
IF ' D CI' DA' "" BA' "GE ' BAMG A' KG 'H JNDA' 'CF''
BA' EA "AJ' G' AEG" A ' 'J' KA ' DA' E' P AC G E' ' E

'G PGEE B"A MG KG TFHAE KE MF IM " CG 'C ""G E G 2
NG A ' KG E F A '"AEE KG EIF" AEG" A"K MG""G TOQ
IA GP ' G'E ' A NI K FMMF E VG TFHAE K EIF" `F' F K
'A A BA A"" EA AJ '"AEE KG "" BFCO CGDMG F'J
A'CG FNA IAD E F'J ' A K IF J A DE I
KG TFHAE K MG P"AFEA KG AKA CF' 'G E 'CA
'F A IF I' 'G N A' G DA F'J G P"AFEA KG AF
G "J BA MF '/ B DK CF"" 'N DK GF I F'J DK CG'L
EC A'CA JG MG CA DA G JA'AEE $G BA E "A' JF A
'G "AE IA N " GM KG PA " EIG "J" NI PG' DK
IAFJ

> E G K A A P G'A G ' A P A 'MF G FB"K IA
FDB N G E CG'J C GM EG A A N'E IFE FCCAP AJ IA
A'AD AE A(P"F'F G' GM 9" UFBA I E BAIF G #IA IFE
BAA' F""G AJ C AJ MG FB " K'F IA A(PA'EA GM P 'C P"A
F'J CIF FC A $G IA G ' D ' E A E EIA FPPAF AJ G BA
'CFPFB"A B G NI ' M D K GM P PGEA GM MG D 'N F'K
EA "AJ AEG" G' IF A A / G BA J E FC AJ BA AA'
CG'M" C 'N PG" C AE F'J G ' BK MAD ' 'A ADG G'E GM
I CI M HAF"G EK GM IA R AA' GM #CG E FE G'A F
AFO F'J ' AFEG' 'N A'JA 'AEE FE 'G"AEE CA F P"K
F'G IA #IA IFJ MG""G AJ =AC " E CG 'EA" G IA PG '
IA A EIA DFJA IA R AA' GM #CG E IA DG F" A'ADK
#IA IFJ E GPPAJ EIG BAMG A IA A(PGE A I CI G "J
IF A EAC AJ IA M GD IA AMMAC E GM IA R AA' GM #CG E
IF AJ/ F'J FD JE IA COE IA E B A M NAE IA
B GOA' P GD EAE I G NI I CI EIA IFJ M"G 'JA AJ M GD
IA IG GM TF K # F E F F" ' 9 'N"F'J EIA ""
BA D EH JNAJ M F' A"ADA' GM NA'A GE K E 'G FJD AJ
FDG'N IA DG AE >A FJ EA E EF 'G'"K IA JF'NA
G I CI EIA FE A(PGE 'N BG I IA EA"M F'J IA E F A
#IA GG FE CG'EC G E GM IA JF'NA #IA J J 'G EI

, IA AHAE G TF K # F E CIF FC A KA EIA CG "J 'G
TOQ AM EA IA P K G F MF""A ' R AA ' * I F "A A I CI
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JACA A KG VG CF EA E 'G EG C"AF B IF
D CI ADF 'E G BA A(P"F 'AJ E ' 'JA E F 'J DK
IAF I CI J AC E DK IF 'J MG B JE DA G A 'BAL
CF EA IA M GM F EG G 'N EP E B A F 'J
IFJ F IA EGDA I 'N A"EA IF ' PA ' GM D 'A EIG "J
EIAJ E CI J GPE PG ' KG VG CGDD EE G 'A E "" "
A"" KG IF IFE PFEEAJ M IAK JG 'G A"" KG F"EG
IF E 'CA A NGGJ "" IF A DKEA"M EIG ' G F JE
KG IAK JACA A KG F 'J IAK JG DA GG D CI
G 'N) '"K "A DA FJ EA KG I E -A 'G IA
M 'A P GD EAE IA P"AFEF ' G CAE I CI "" JG KG
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DG A G BA IAF J $IF CIFP A GM C DA FE C"GEAJ/
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FNF 'E IA IF 'N BAA' EG CG'E JA FB"A F MA/ CG'C" JL
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GP ' G' ' 9'N"F'J IA P AJGD 'F' A NI GM
DGJA F A E F AEDF'EI P FE ' MF G GM ACGN' E 'N
IA R AA' GM #CG E FE E CCAEEG G 9" UFBA I E C G '
$IA'CAMG F J IA GPA' FJ GCFCK GM IA C"F DE '
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IFJ E "" PG A M " M A'JE B IAK A A J JAJ FDG'N
IA 'EA" AE F'J A'C DBA AJ I IA CG'EC G E'AEE GM F
CF EA I CI IAK JF AJ 'G F G + GPP 'N IA CIFL
FC A GM 9'N" EI E F AEDA' IAK BACFDA CG'EP F G E
DG 'N ' IA JF O F'J CGDP GD E 'N IA 'EA" AE I
AFEG' F'J MG A N' ' N AE F'J I E N FJ F""K F""
IF * FE IG'G FB"A F'J 'GB"A MA"" F FK M GD IA
E JA $IA DFEE GM 9'N" EI CG ' K NA' "ADA' F IA
G EA B CG"J M A'JE GM ! G AE F' ED BACFDA CG'L
A E I G NI IA PF G ED F'J TF K # F FE
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, I D C"GEA F IA E JA/ EIA G "J 'G F""G I D G BA TOQ F AE AJ/ EIA A' GPA'"K G #A G' I I D BAMG A BA `F' FK G KIGGJ FE F MG ' NI G"J * IA' F '"FE ' ""L 'N"K EIA CG'EA' AJ G I E F"'9J 'B NI FE GCC P AJ BK I E A F 'A E >A P AEA' AJ I DEA"M F IA $G"BGG I E G 'JAJ BK IA ?GKF" 8 F J F'J IA CIF NA MA"" G IA N G 'J BACF EA IA = G ' J J 'G P GEAC A F'J IA 9F "GM -A' 'G(IFJ BAA' P A A' AJ M GD FPPAF 'N MA AAOE "F A EIA DF AJ %G I A"" IG NI IA IFJ F MA F" AFJK F'J IA' IA E BHAC E GEA D F DE FNF 'E IA F'J GGO IA P EG'A EIA AM EAJ G F""G IA EA"M G BA J G CAJ M GD I D M A IA J ECG A K GM IA "A A E IA N " FPPAF AJ EG GB G E F'J EG EIGCO 'N IF F"" PF AE ' #CG "F'J FN AAJ G K IA F'J A(AC A IA F'J EIA FE G'"K EF AJ BK IA ' A L MA A'CA GM 9" UFBA I ' #CG "F'J 9'N"F'J @ F'CA F'J #PF ' IA A FE F M E B G'A GP ' G' \ JA # " F ' -G'JG J = GC ' 9J 'B NI F" OA A' A F 'AJ 'G EG GM JG B FBG IA / 'G FE " IA PG" CF" HAF"G EK GM IA >FD " G'E F EAJ F MFC G' FNF 'E T L FK F'J "" PF K ' A AE E BACFDA ' G" AJ ' IGEA GM IA R AA' IF BACFDA CG' A' A' G E PPGEA IA G BA ' 'GCA') ' IA M" NI ' ' G 9'N"F'J IA M E GBHAC FE G P A A' A'Q K F'J IA' CG "J 'G"G'NA BA A FJAJ EIA IA EA"M IA CGDD EE G'A E F'J IA 9'N" EI M A'JE A(A AJ IADEA" AE G PA E FJA T FK G OAAP BFCO IA EA G E CIF NAE FNF 'E IA # IA FE AFJK G CGDPG 'J MG I E E "A'CA BK N F' 'N I D PA MAC DD ' K MG I E ABA"" G'/ F" IG NI M IA "A A E A A 'G NA ' 'A IA IFJ 'G G'"K EA' ' F DE FNF 'E IA B FE EI A"J 'N I DEA"M BK MG NA K GM IA BFEAE O 'J >FJ IA R AA' GM #CG E BAA' AF""K ' 'GCA' EG MF M GD A FJ 'N A'Q K EIA G "J 'F F""K IF A BAA' IA M E G 'E E PG' / EIA G "J IF A JADF'JAJ FE F

N" GM 9" UFBA I/ EIA G "J IF A CF""AJ G' @ F'CA '# '
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IA EIA IFJ M A'JE A'G NI '9'N"F'J G F CI G A $;$<
IA ' A AE E 'E AFJ GM I E IA G'A G J I G NI
G FE =GDP GD EA #G"G'N FE X IA GJ G E CIF NAE
A A 'G P AEEAJ EIA FE G AFJK DFOA F"" CG'CAEE G'E
F'J@ F'CA IA'@ F'CA DG AJ MG IA P G AE AJ G'"K
FNF 'E F#G A A N'! 'CAEE BA 'N P"FCAJ PG' IA F"
@ GD M E G "FE IA G 'CG'J C F'J IA CG'J C
GM IA M A'JE FE A(FC "K IF G "J IF A BAA'E PL
PGE 'N IA N " K 9 A' 'IA G '"A A E IG NI EIA
JA' AE IA C DA IA A E 'G IA A IA C"AF 'N GM ''GL
CA'CA IA M F'O 'J N'F G'FNF 'E E"F'JA I CI DFOAE
E A NI MA" A A' IA' IA A JA'CA E AFO I CI
E PPG E -F TG IA @b'A"G' IG NI AFNA G A(L
CF A IA M GD IA J MM C " AE KA 'A A EPGOA GM IA
A A' G I E G 'CG FE E MMA 'N 'JA CF" D'K > E
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IA CIF NAE G DFOA J MM C " AE G JAC" 'A G F'E A
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EF I IAD 'G G'A IF A A IA % EIGP GM ?GEE
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IA DGE CF AM CGDPF EG' GM IA 'C D 'F 'N
"A A E I G IA E GM 'Q AE G'FB"A F IA' C K IAK
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F E EP C G' IF IAK A A MG NAJ
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TOQ
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IAD KA IA JA' F FE FCCGDPF' AJ I IA DGE AF 'AE F' (A K IF IAK EIG "J BA JAE GKAJ I "A G "J IF A BAA' BK IA P AEA F G' F"G'A IF EIA CG "J E CCAEEM ""K J EP G A IA IF'J ' IAD $IA FNA I CI CG "J IF 1 P GJ CAJ MG NA AE EG 'NA' G E G "J IF A P GJ CAJ F"EG IA EO "" I CI CG "J JA AC IAD F' J IA DA A FEEA G' A NIE" "A FNF 'E IA ACG JAJ AE " E GM F CF AM " A(FD 'F G' BK DA' IG IFJ IA I NIAE ' A AE ' J ECG A 'N F M F J E ' F I NI JAN AA '" OA"K IF F MG NA G "J IF A A'L AJ G' P GJ C 'N EG DF'K "A A E G CI 'N G' EG DF'K E BHAC E I IA JF'NA GM A(PGE A 'C AFE 'N ' F' FCCA"A F 'N F G IA' F E 'N"A "A A G "J IF A EA AJ I E P PGEA E E "" DG A '" OA"K \ E DG F""K DPGEE B"A \ IF M IAK IFJ BAA' MG NAJ EGDA A JA'CA GM IA I EIG "J 'G A A' F""K IF A CGDA G $IA EAC A D E IF A BAA' O'G ' G DF'K PA EG'E F' J IA % EIGP GM ?GEE F' J %A AE CG "J

E 8 '" * Q*'&*(. ' "' & < H 'P ' H# ' * (.*' ' # * /? &' & # '#* * .? & *' 8 *' #* F, * & ($%& < H & #* .E ?*#@' 0 & . 0 &* . " * (@* .' & *' ''* $ G 'HU . ', # * .' & #' # ' #* .' '* & (* .' &* . " # *?* & '#* .'H @ & ("& .' * # .' & #' ? ?' & (L ?& & #*(? ' & @ # '* # * .' ' &' 8 &' ?& &' ?& . " #? &*.' ?' & * # .' & (#A' & 8 #&' = 8& * ' .' '* # * & (*"* ' & *#' *# #& .' ' & 8 #&' ?' & (4 &* ?*#' @ ## . +

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9$<=@ 9$E: 8 CC:= 9: <$D:C >? +$ @$ =?><> : 2
8 ;C 9$E: J > ?>< 9: @: :<C :<: :7C : D: TOQ
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! ;$< C H$< =:E> := 9$ <: 8$:= >? 9 C @ ?: > 9:<
$ = = := 9:< D$;C: & $ 8>8 : 9: 8 F9 9$E:
C:D;<:= 9:< < ;8H9 B <:E:$@ F 9: ?<$;= ? ?:$<
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@:? H$H:<C B:9 = 9 8 9 D9 >@= 9: <; 9 $? :< 9 C
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B 9 8 >< $ > : *> 9$E: D$<< :=>; $ D>8H@ D$:=
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$8 := 9: :E =: D: $ = D>8: > $?$E>;<$B@: D> D@;\
C > $ H@$;C B@: F<>; = 9$C B: : :<:D := ?<>8 9 D9
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=' ! , % EIGP GM ?GEE G "J 'Q AE G'FB"K IF A EF J F"" '
TOQ IA MF G I CI IA DGE E F 'AJ P GBFB " AE F""G AJ
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$IAEA"A A E A A 'A IA 'E N'AJ EAF"AJ 'G JF AJ F'J
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NA' 'A IAK J J' G CG' F ' XF'K A(P AEE CGDDF'JDA'
GM F'K '"F M " FC G JAAJ G BA CGDD AJ G PA PAL
F AJ ' 'A IA J J IAK X F MK G EPAC MK IA FCCGDL
P" EIDA' GM F'K E CI MFC F" AFJK PFE $IAK FMMG JAJ
G'"K P AE DP G'E XBK 'EAA' F'J 'CA F ' Q A AE
F DE F'J CG'HAC F" E PPGE 'NE "G 'N IF EIA
FE FE N " K FE IA -G JE P A A'JAJ IAK IFJ 'G
NI G JAPGEA IA =G'E JA 'N -G J +F '"AK E GML
MA'CA XF E DP"A D JA ' 'IA BA 'N F ! 'CA CG "J
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$IA AFEG' 'N AQ AJ MF"EAIGGJ G CF K J G ' 2 '
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GFI E M E CGD 'N G VG O IA J J 'G F""ANA F'K E CI `F'GF H
C DA FNF 'E IA R AA' GM #CG E B P GH CAJ IA
CIF NA G'"K IA' IA CG "J 'G G IA EA X EA A I E
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IF AFEG' T FK IFJ BAA' E "A' G'A IFJ BAA'
DG A NA' G OAAP I D E "A' * I A A'N AF A
F JFC K IA JAC"F AJ IF X IA 'GB"AE GM 9'N"F'J
FPPG ' AJ G IAF IA DF A IG G'"K MG 'J IA R AA'
GM #CG E ''GCA' B M ""K 'JA E GGJ IF IA FCC EA E
A A IA CG' A E F'J G OA E GM IA C DA F'J
PA MAC "K O'G 'N IA ''GCA'CK IAK IFJ DG AJ IA
G FCCAP IA 'GB"AE DF' '9'N"F'J ' DF FNA
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FBG IA DF A F'J IF IA %EIGP GM %GEE O'A
IF IA IG NI IFE BAA' F" AFJK EAA' 9" UFBA I E
A(FG J 'F K EA' A'CA IFJ F"G'A DFJA PGEE B"A G
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9:8'H<$ '?><' 9:'%;:: ' A><' 9 C'
'8$ 'C$ 'C9:' C' 9: <'@$?;@' 8$F C\
<$:' ?><' 9$' 9:<' ?$ 9:<' $C' >;<'
$ E:' # F' $ =' 9:<' 8> 9:<' $C'
@ J: C:' $ ' 9> >;<$B@:' 1< D:CC'
$ =' C9:' F> : ' $ =' B>9 ' '@$?;@'
B:= ' *9;C' ?$<' >' H<>E:' 8 ' $<F;\
8: ' 9$' C9:' >;F9 ' >' B:' H<$:='
?><' & =' ?;< 9:<' $@@' C :<C' >;F9 '
>' B:' H<$:=' ?><' ?' :' C9>;@=' >'
H<$ ' ?><'C :<C' 9>8' ?><' C9>;@='
:' H<$ G' C:: F' 4>=' D$8:' >' >'
'D$@@' 9:'<F9 :>;C'B;' C :<C' >'<:\
H: $ D:' $ '2$E =' C' '$=;@\
:<:<' $ =' C>' $C'C9:' !$ '2$E =

D>8 8 :=' 8;<=:<' 'C@$ F' "<$9'
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9$' C' 9 C' >' 9:' 8$:<G' *9:'
8><:' DJ:=' C9:' B:' 9:<' C;B :D C'
C9>;@=' H<$ '?><' 9:<' >' B< F' 9:<' >'
9:'CH < '>?'<:H: $ D:' A><' ;=>C'
$C' $' C :<' $ =' ?' 9:' 9$=' B:: '
H<$:=' ?><' 9:' 9$=' > ' = :=' ' =:\
CH$ <' .>' ?:<><C;B :D '9$C'H> :<'
>' =:H< E:' ><' =:H>C:' 9:' @$?;@'
'8$F C <$:' 9:' ><' C9:' 9$ C>:E:<'
$@B: ' 9: 'D>8 8 ?' 9><:=>8 '8;<\
=:<' D:C ' ><' $ ' > 9:<' D< 8: Y '
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FE A ' ' ' P ACAE ' IA ' 'EAA 'N IA A ' J GM I E MF"EAIGGJE '

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AE DF A GM I E D E AEE E CIF FC A \ F ' ' AE DF A BK IA

E JA GM I CI ' % CIF ' F ' E T F K E F ' ' F 'NA"

+GC G ' * "EG ' ' IA ' T FE A ' GM IA '=G ' GM ?AQ AE E '

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MG"O ""' "AF A G BA "A J ' I E D E AEE EIF"" EPAAJ ' IA

BA A ' >A EF I ' M IA ' PG ' ' EPAACI ' ' IFJ ' I ' I D '

IF ' IA ' R AA ' ' I E D E AEE E ' G ' M ' MG ' F 'K I EBF ' J /

MG ' M E ' IA ' EF I ' EIA ' PG EG 'AJ ' IA ' I EBF ' J ' IA @ A 'C I '

7 'N ' FE IA ' IF I C AJ B"K ' 'JA E GGJ/ FNF ' ' EIA ' CG 'L

EA ' AJ ' G ' IA ' D JA ' NM IA ' "F A ' I EBF ' J ' IA ' -G J '

+F '"AK/ I J"K ' EIA ' DF CIAJ ' I ' IA ' D JA A ' F ' J '

B G NI ' I D ' G ' IA ' M A"J ' G ' BA ' D JA AJ/ F ' J ' "FE ' GM

F"" ' EIA ' P A A ' JAJ ' DF FNA ' I ' IA ' + OA ' I ' IGD '

FE ' IA ' I 'OE ' EIA ' G "J ' 'G ' "G 'N ' IF A ' OAP ' MF I ' F ' J '

IA ' + OA ' EIG "J ' 'G ' IF A ' IFJ ' IA ' BAE ' JFKE ' I ' IA '

* A"" D NI ' +GC G ' * "EG ' ' A(C"F D ' FE IA ' J J ' ' CG 'L

C" E G ' ' X -G J ' IF ' F ' PAGP"A ' F A ' IAEA ' IF ' F ' R AA ' '

F ' J ' IF ' F ' ' FDBFEEFJG] '

* I ' IAEA ' G JE F"" IF ' 'AAJ ' BA ' EF J ' PG ' ' IA '

E BHAC ' DFK M "K C"GEA ' F ' J ' IA ' AFJA ' D E ' BA "AM ' G '

I E G ' 'H JNDA '

' E "AEE ' AFEK ' G ' EPAFO ' I ' CG ' M JA 'CA GM IA ' CG ' J C

GM 9" UFBA I #IA FE H' F PGE G' IA A IA A A A 2 2
'G P ACAJA' E G N JA IA F' J EIA "GE IA FK ' E TOQ
PA P"A(AE $G CG ' A'F'CA E BHAC E ' ABA"" G' FE `F' F K
JG B "AEE JF'NA G E F' J FCCG J 'N G IA P 'C P"AE GM
IA DA 'H E /B GCCFE G'E EA IA A IA I NIAE
NI E IA I NIAE G'N/ IA A IA EG A A N' IG
E IA AP AEA' F A GM G JA F' J H E CA BACGDAE IA
AP AEA' F A F IA GM C DA F' J ""F' K IA A EGC A K
E ' A AJ F' J IA "AE BA"G'N 'N G D E BA AFJ
BFCO F JE * IA' IA #CG EI PAGP"A GGO "F K
F P EG'A F' J I NA'A F CG'EA' P APF AJ G
K IA MG IA D JA A IA 9" UFBA I G NI 'G G
IF A ' A MA AJ G EIA D NI IF A ' A MA AJ G'"K G
'E E G' F E C F' J A(IF E 'N ' AE NF G' $IA
I G "J IA' IF A BAA' O'G ' F' J P GC"F DAJ F' J
M IA EPAC FC"A GM F C G 'AJ IAFJ PG' IA ECFMMG"J IFJ
BAA' JAADAJ ' G"A FB"A IA R AA' E " MA D NI FM A L
F JE IF A BAA' EPF AJ IG JF'NA
% 9" UFBA I \ G B"AJ I IA MAF GM A'CG FN 'N
F PA "G E A(FDP"A G B"AJ I F J E" OA GM IA ! GL
AE F' E IGD EIA O'A IF E" A IFJ 'H AJ JG B" 'N
IA IA TF K # F FE AF""K N " K G M N " K
IA IA DF'K GM IGEA IG A A ' F DE FNF 'E IA
A A 'G FE JAAP"K DP" CF AJ FE IA EA"M \ M E MG BFJA
IA F" F' J IA' BK AM E 'N G ACGN' EA IA ?ANA'
A'CG FNAJ IA >FD " G'E G MG D F PF K FNF 'E I D
MG IADEA" AE F' J MG IA R AA') ' IA JAMAF F
-F'NE JA EIA ADP AJ IA G FOA AM NA ' 9 'N"F' J F' J
D DAJ F A"K MG 'J IA EA"M MFCA G MFCA I A'G DG E
J MM C " AE #IA CG "J 'G JACA' "K AP"FCA IA G' IA
I G'A "" Ib A JA'CA I CI IA ?ANA' GMMA AJ G
P GJ CA IFJ BAA' P GBAJ F' J AE AJ/ EIA CG "J 'G
F""G F ! 'CAEE IG IFJ C"F DAJ IA G ' C(G ' IG
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IA ˢ AF"ˢ ' A AE E ˢ $ DAˢ G "Jˢ EGM A'ˢ IAˢ ACG""AC G'ˢ `F' F K
GMˢ IA ˢ D EJG 'NEˢ/ BKˢ PF A' ˢ A'J F'CAˢ GMˢ CQ"F F Kˢ EIAˢ
D NI ˢ ACG A ˢ IA ˢ EIFOA'ˢ AP F G' ˢ F'Jˢ EGˢ A A' F""Kˢ
EIAˢ D NI ˢ BAˢ AP"FCAJˢ IG ˢ GBHAC G'ˢ 'ˢ IAˢ PGE G'ˢ
I CIˢ EIAˢ IFJˢ MG MA AJ

* Iˢ I Eˢ PGEE B " Kˢ MG ˢ EIAˢ IA EA"Mˢ "G A ˢ IF ˢ ˢ FEˢ
'G I 'Nˢ DG Aˢ 9" UFBA Iˢ F""G AJˢ IAˢ =G'MA A'CAˢ Gˢ A L
D 'F Aˢ 'ˢ F'ˢ FBE Jˢ CG'C" E G' ˢ F'Jˢ FCCAP AJˢ MG ˢ IA EA"Mˢ
Fˢ AP F G'ˢ MG ˢ JG B"AJAF" 'Nˢ G ˢ IKPGC EK ˢ I CIˢ EIAˢ
JAEA AJˢ 'ˢ MG Dˢ B ˢ 'G ˢ PA IFPEˢ 'ˢ E BE F'CAˢ 'ˢ
IAˢ JA F "Eˢ GMˢ IAˢ P GCAAJ 'NEˢ EIAˢ P G GOAJˢ IAˢ IF JAEˢ
' A P A F G'ˢ GMˢ IA ˢ DG AEˢ #IAˢ E FKAJˢ Gˢ F'Jˢ M Gˢ
'JA ˢ IAˢ IG EF'Jˢ CG'E JA F G'Eˢ I CIˢ IAˢ E F G'ˢ
F" A 'F A"Kˢ E NNAE AJˢ F'Jˢ EIAˢ EF Jˢ G'Aˢ I 'Nˢ F'Jˢ EF Jˢ
F'G IA ˢ EF Jˢ G'Aˢ I 'Nˢ F'Jˢ J Jˢ F'G IA ˢ FEˢ MAF ˢ J Kˢ
PG" CKˢ 'F Fˢ"ˢ P Kˢ G ˢ 'F Fˢ"ˢ EP"AA'ˢ GGOˢ E sCAEE Aˢ
PGEEAEE G'ˢ GMˢ IA ˢ $IAˢ CG'EAQ A'CAEˢ 'ˢ DF'Kˢ FKEˢ
A Aˢ J EFE G E/ KA ˢ "AEEˢ J EFE G Eˢ IF'ˢ IAKˢ G "Jˢ
IF Aˢ BAA'ˢ IFJˢ EIAˢ EA ˢ IA ˢ P EG'A ˢ M AAˢ #IAˢ IA EA"Mˢ
FEˢ IAˢ G Eˢ E MMA A ˢ 'ˢ A NI AA'ˢ KAF Eˢ GMˢ JF'NA ˢ F'Jˢ
J EQ A ˢ F'Jˢ 'ˢ F'ˢ E F 'ˢ PG'ˢ IA ˢ NGGJˢ 'FDAˢ F'Jˢ MFDA/ˢ
B ˢ IAˢ M Eˢ MF"EAˢ E APˢ ' G" AJˢ IAˢ AE ˢ BKˢ Fˢ FN Cˢ
'ACAEE Kˢ >FJˢ EIAˢ "AM ˢ T F Kˢ # F ˢ Gˢ IAˢ H E CAˢ GMˢ
IA ˢ CG ' KDA'ˢ IA Aˢ G "Jˢ IF Aˢ BAA'ˢ 'Gˢ C "ˢ F ˢ 'ˢ
#CG "F'Jˢ F'Jˢ IAˢ CIAQ A AJˢ DAEˢ G'ˢ I CIˢ 9'N"F'Jˢ
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F" AFJK J 'N IA P GN AEE GM IA ?AMG DFL G' IA FJ F'CA GM IA 'A GP ' G'E IFJ BAA' CIACOAJ BK AFC G' $IA C GM # P ADFCK F'J IA JEEG" G' GM IA DG'FE A AE IFJ BAA' MG""G AJ BK IA MF. GM = GD A"" IA # (C"AE F'J IA B ' 'N GM %F 'AE F'J -FDBA $IA F' F CIK EGC F" F'J EP F" I CI IFJ B GOA' "GGEA 'JA 9J F J FE B G NI G F' A'J BK IA IF J F'J IAF K IF'J GM TF K F'J !G"A @ GD IA DGDA' IF 9" UFBA I JAC"F AJ FNF 'E IA !GPA FE 'A FB"A IF EGG'A G "F A IA =F IG" CE G "J DFOA F I J AMMG G ACG A IA FECA'JF'CK ' ' DBA IAK E "" A(CAAJAJ IA ?AMG DA E F" IG NI ' 'A'A NK F'J A' I E FED IA ?AL MG DA E IFJ F CG AEPG'J 'N FJ F' FNA $IA E A'N I GM IA G PF AE G G F J FPPAF F'CA FE 'AF "K AQ F" F'J 'A IA G'A 'G IA G IA IFJ BACGDA FE KA FCC E GDAJ G IA P FC CF" G O 'N GM IA MG D "FE GM IA 9E FB" EIDA' IA A AFCI D NI IG"J IA G ' GP ' G'E 'JA IA EIG 'GM ' MG D K $IA E F AEDF' GM IA' 'A AA' I CA' K I IA CG'J G'E BAMG A I D I CI P AEA' AJ IADEA" AE G IA =G 'C " GM 9" UFBA I G "J IF A "AM A" N G' G IA 'J J F" CG'EC A'CA \ G "J IF A 'E E AJ G' "K G' NA'A F" E BD EE G' G IA "F E F'J I ' IF '" D G "J IF A PA D AJ =F IG" C F'J ! G AE F' IA M AA EA GM IA G ' CIFPA"E F'J

EA CAE % I E EG" G' GM IA P GB"AD IFE BAA' DFJA PGEE B"A G'"K BK F N FJ F" CIF'NA GM EA' DA' %AMG A F NG A 'DA' CF' FC G' P 'C P"AE GM G"A F G' IA PAGP"A G BA NG A 'AJ D E IF A BACGDA IADEA" AE F "AFE G F J"K G"A F' $IA F ADP FE DFJA ' @ F'CA IG I E 'ACAEEF K P APF F G' F'J IA AE " FE ' A EF" J EG JA ' A D 'FB"A G B E E F'J C " F F'J IA' C C DE F'CAE A A EPAC F""K 'MF G FB"A IGEA DG'E G E DFEEFC AE I CI IF A DFJA IA A N'E GM=F IA 'A JA TAJ C F'J IA EG'E EG 'MFDG E ' I E G K $IA 9'N" EI C GM . 'MG D K IG NI ' G"A F' ' FPPAF F'CA F'J "F'N FNA FE FJFP AJ G P G AC IA P 'C P"AE I CI ' EAADAJ G JA'K =G'N ANF G'E GM ." FDG' F'AE F'J 8A'A F'E M F""G AJ AFCI IA M AA NI GM DAA 'N I IA P AE E F'J D ' E A E M "D 'F 'N M RD F" P "P E G "J IF A BACGDA G NF' EAJ BF'JE GM 'CG' G""FB"A MF'F CE/ IA F GM G JE G "J IF A BACGDA F F GM B"G E F'J A A K G ' '9'N"F'J G "J IF A BAA' F ECA'A GM PA PA F" B"GGJEIAJ

D JJ"A CG EA FE IA AMG A CIGEA' \ F CG EA I CI F IA DA P"AFEAJ 'G G'A B IA R AA' F'J IA IF"M JGUA' G JGUA' ' A"" NA' PA EG'E IG E L G 'JAJ IA /' B FE IA EFDA I CI IA MF IA IFJ DF OAJ G BAMG A IA F'J E A A' F" E CCAEE DFK BA F""G AJ G P G A IF EA

FE 'A IA PGEE B"A IG A A 'G JAE FB"A G IG"J IA BF"F'CA A' A"K A A' $IA 'A JAFE A A N G 'N/ IA G"J A A FP 'N $IA A FE 'G F'(A K G CIACO IA M E G EF A IA EACG'J 9FCI FE G BA F""G AJ F'J A'FB"AJ G MG""G E 'F F" A'JA'CK '' PAFCA/ F'J I E IA MG D "FE FE IFE BAA' A . EF J IG NI PF A' GM F =F IG" C ' A P A F G' A A 'G FDB G E GM /' IA ! F'E CG "J DG A AFE "K EA

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IA 9'N"EI " NK IF' IA =F IG"CE CG "J JEL
PA'EA I IA DFEE $IA ! F'E CGDP"F'AJ'B
MG IA DGE'PF 'E BD AJ $IA =F IG"CE IG'CG'L
MG DAJ JA"K'F'M E 'ADP AJ'BK' IA AFEK'FJD 'E FL
G''GM IA"F E'MA""' F FK\ AEPAC F""K' '' IA 'G IA ''
'CG ' AE\ ACG'C"AJ IADEA" AE G?GDA'F'J F CIAJ'
F'J' P FKAJ'A IA 'MG 'F'A 'EG A A N''G 'MG ' IA ' A L
MA A'CA'GM' IA' 8 AF ' !G A E'GM' 9 GPA
' IA' DA' F ' I CI' IA' I E G K' IFE 'G 'F AJ'
F' C E E' FE' E B"K' FPP GFCI 'N ' $IA' EAE 'GM' IA'
#PF' EI'E F AEDA'' IFJ' MG AEAA'' MG 'KAF E' IF ' '"AEE'
9" UFBA I' CG "J' BA' CG' A AJ' F' C EFJA' FNF 'E ' IA '
G "J'F' "FE ' IF A' G' BA' 'JA FOA'' $IA' JAMAF' GM'
) F'NA' IA'N G 'N'A(IF E G'' GM'=G'JA\ A A K IA A'
A(CAP 'G'' IA' EAF IA' P AEA'CA'GM' IA' R AA'' GM'#CG E'
'' 9'N"F'J'F'J' 9" UFBA I E'A JA' ' D J K' '' JAF" 'N'
I' IA /' IA' EA U A' GM' IA' #PF' EI' AFE A' F'J' IA'
J ECG' A'' P G GOAJ' BK' IA' E EPA'E G'' GM' FJA' IFJ'
C AF AJ' F' "FE ' '' IA' GP ' G'E' GM' DF'K' GM' IAD' IA'
GPPG ' K'MG ' I CI' IAK' IFJ' F AJ' EG' "G'N
$IA' PI "GEGPIK' GM' I E G K' I CI' AEG" AE' A A' E' ' G'
IA' FC G'' GM' G NF' C' F'J' 'ACAEEF K' "F E' =G'CAF"E' M GD'
E' IA' PA P"A(AE' GM' IA' " 'N' 'E DA' E' BK' I CI'
IGEA' A A' E' A A' B G NI 'FBG ' * A' EAA' IF 'FC F""K'
IFPPA'AJ' / A' DFN 'A' IF ' A' J ECA '' IA' CF EAE' I CI'
JA A D 'AJ' IA' AM AC E' / F'J' '' FEE D BN' F' 'ACAEEF K'
CG' 'A(G'' BA AA'' IAD' A' ED "A' F ' IA' 'AAJ"AEE'
MAF E' A' J C "A' IA' 'AAJ"AEE' P ACF G'E' GM' O 'NE'
F'J' D ' E A E/' A' JAEP EA' IAD' FE' EIG E NI AJ/' A'
CA'E A' IAD' FE' F B F K' F'J' K F' ' CF"/' MF " 'N' G'
PA CA A' G 'A"EA' MF " 'N' G' FCO'G "AJNA' IF ' M' IA' AL
E " E' A A' 'A FB"A' IA' CIF FC A E' I CI' FEE E AJ' G'
'P GJ CA' IGEA' AE " E' A A' 'A FB"A' F"EG ' %K' F' E B "A'
P GCAEE' GM' ' A""AC F"' 'H E CA' A' CG' A ' IA' FM A 'A(

PA A'CA GM MFC E ' G P 'C P"AE GM AFEG' 'N I CI G "J IF A A'FB"AJ E G MG AEAA IGEA MFC E/ F'J A 'MA '
t I 'CG'EC G E CGDP"FCA'CK IA E PA G K GM `F' JC F K
DGJA ' ' A"" NA'CA

X 7'G "AJNA GM IA AE " F EA DF' G'CA GBEA AJ X IFE EPG " IA CGDPGE G' GM I E G K H E DG F" FPP AC F G' GM CG'J C E DFJA DPGEE B"A BK $IA ADAJK EG MF FE IA A E F ADAJK E G "GGO IA A A A CF' I G NI IA AKAE GM CG' ADPG F AE M GD IGD IA M A FE CG'CAF"AJ

) M IA P GEPAC E FPJ PGE G' GM 9'N"F'J ' IA GPA'L 'N DG' IE GM IA KAF TOQ F ADF OFB"A EOA CI IFE BAA' "AM BK # * "" FD =AC "\ J F 'A IA MG I E G ' EA FCCG J 'N G I E IFB GM "GGO 'N A A K I 'N ' IA MFCA G IF IA D NI P"FCA J E 'C "K BAMG A 9" UFBA I IA JF'NA E G I CI IA BA" A AJ IF EIA FE A(PGEAJ 9(CAP MG IA E PPG GM IA 8 AF !G A E IA !FPFCK IA EF J G "J IF A A IA MF""A' G G "J IF A BAA' AMG DAJ @ F'CA F'J #PF ' IG A A ' ' IA D F" HAF"G E AE IFJ BG I E PPG AJ IA !GPA ' 'G JA G EAC A I E M A'JEI P G G BA EFMA M GD I E A'D K/ F'J G'A G BG I GM IAD G "J EGG'A G "F A FEE E I D G ACG A 9'N"F'J $IA R AA' IFJ AECFPAJ EG MF X F IA BK FCC JA' IF' BK PG" CK G E A'N I $IA JAF I GM >A' K IA C " F IA J"MIC " AE GM #PF ' ' @"F'JA E F'J ' IA TAJ A F'AF' IFJ GB" NAJ BG I =F IA 'A JA TAJ C F'J ! I " P G ADL PG UA F'J FMMAC F JAE A MG IA M A'JEI P % =G'JA FPPAF AJ F I E "FE NFEP F'J IG IA"P G "J EPAAJ "K MF""/ " F FE FBEG" A ' @"F'JA E F'J IA MF G EIG ' G TF K# F IFJ N A' A'A AJ E A'N I F'J EP E G IA PF K GPPGEAJ G IA ?ANA' ' #CG "F'J IA M E CG' A' A' DGDA' A IA @ F'CA G #PF ' G BG I G "J I G F' F DK FC GEE IA =IF' 'A" '

A(C EA M A(C EA FE F' AJ CG "J BA MG 'J ' IA
FEK" D GMMA AJ BK 9 'N"F' J G IA ! G AE F' AM NAAE
JC F' J ' IA MG CAJ JA A' G' GM IA R AA' GM #CG E >A' K
> K
F' J 9J F J IFJ Q F A""AJ I IA =I CI
GM ?GDA % ' IA DA IA A FE 'G P A A' JA G
IA C G ' $IA R AA' GM #CG E E GGJ 'G BAMG A IA
G "J M' G FE"AN DF A #G A A N' GM 9 'N"F' J KA FE 'L
J EP FB"K IA 'A(' 'B"GGJ #IA IFJ BAA' JAPGEAJ M GD
IA G ' I G'A MG AFEG'E I CI IG A A A""' JA L
E GGJ ' IA BAN ' ' 'N KA IFJ BAA' A' JA AJ JG B M
BK IA DPG A' AE " E GM IA ' AE NF G' F' J EIA CG "J
AP AEA' IA EA"M FE IA"J F P EG'A MG ' G CF EA I CI
IA F JF AJ G F G > A X JA A D 'AJ ! FP E K
A' JAF AJ IA G IA =F IG" CE F' J ACGD DA' JAJ IA FE
F' 'E DA' G IA MG A N' A' AD AE GM IA R AA' /
I "A F' (A K MG F' FECA F 'AJ E CCAEE G' IA P GEPA^
GM F ' G' GM IA G C G 'E F' J 'F F P K MG
IA D EMG 'AE DFJA M A' JE MG IA FDG' N F"" PF AE
' 9 'N"F' J X $IA MFDA GM IA D JA 'N IA I EBF' J
G "J BK DA F' EI F FK G BK JAMA' CA G "J BA EG
IF' J"AJ FE EIG "J BA 'G N AF B"GCO' IA FK G
FCI A A IA P PGEAE) ' IA G IA E JA 9" UFBA I FE
IG CI "J IG I EBF' J IG F"" K F' J F"DGE
IG M A' JE >A E BHAC E IFJ BK "G 'N PAFCA BAA'
A' JA AJ 'FP MG F F' J IA J EFM AC AJ FDG' N
IAD X IFJ N G ' BG"J BK IA EGM F' J AD EE NG A 'L
DA' X $IA EA CA GM 8GJ X F' J IA E 'CA A P GL
MAEE G' GM =I E F' K A A D CI JACFKAJ/ X F' J '
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" N G' IFJ C AP ' '/ X BFP E E JA JA E GM A" N G'
AP C AF' E F' J F IA E E A A A A K IA A/ F' J X E CI
JACFK GM GBAJ A' CA ' C PG" CK FE CGDPF AJ I
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$IA MG A N' A"F G'E GM 9'N"F'J A A BACGD 'N A A K IG DG A I AF A' 'N E EGG' FE IA 'A E GM IA EA U A AFCIAJ #PF ' 9'N" EI EI PE A A F AE AJ ' IA !A' 'E "F FE IAK IFJ BAA' ' @"F'JA E G IL E F'J 'N IA IAE F G' GM -y TG IA @b'A"G' =F IA 'A JA TAJ C MG""G AJ IA A(FDP"A ' A F" F G' MG IA CG ' A'F'CA G =IF ""G' F'J G =G'Jb E P F AA E $IA AEEA"E FJ 'N F >F A F'J %G JAF (A A MG B JJA' G"AF A IA IF BG E F'J FJA I @ F'CA FE C"GEAJ

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X =AC " I DEA"M DAF' I "A E CGDDA 'C 'N F M G E PA EAC G' $IA 'P EG 'E F A G A M"G 'N F 'J ' % JA A"" IA A F A F I 'J AJ F 'J M M K #PF' F JE IG F A MG CAJ G " E A' G IA A C EA DG 'E F 'J F A ADP AJ BK GMMA E GM A F JE G BACGDA IA A CE IADEA" AE $IAK IF A ADG AJ IA EA' AE 'JA DK 'JG E/ B F IA BACF EA GM IA M GE IF' MG F 'K BA A AFEG' TK NF JA' NF AE F A 'F "AJ P F 'J IA O' NI IG E G' N F J G A DA E AE FB" EIAJ I E MFD "K ' DK PG A E "GJNA =AC " %AJMG J F 'J

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"A -G J JD F!FJ GCF A F / IA FJD F" BACF EA GM IA GPPG ' AE I CI "" GPA' G I D MG P" 'JA $IA AE GM IA =G 'C F A MG PAFCA $IA -G JE IG F A DK M A'JE A"" DA 'G G BA J E AEEAJ F DK JA A' G' G I 'N E DAF' BAKG'J P A A' 'N DA M GD CGDD ' CF 'N I IA =F IG" CE

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X + EEG'"A ""A IFE IFJ 'G F J A'CA F'J I "A =AC " ADF 'E ' PG A 'G I 'N "" BA JG'A A F'J I E M A'JE JAE A G'"K G MAAJ IA A ' @ F'CA F'J IA -G =G ' AE BA" A 'N IF M IAK CF' OAAP IF M"FDA 'A('N EIAJ IAK "" BA "AM F"G'A ' IA IA AE AE $IAK AM EA G PF I IA DG'AK '"AEE KG T FHAE K "" EA'J I IA F EPAC F" DAEEA'NA G A'A IA G"J "AFN A '"AEE KG "" DFOA CGDPA'EF G' MG G L E F'J 'N 'H AE F'J "" FPG"GN EA MG IA J EEF" GM +GC G TF' "" 'G BA G KG T FHAE K E IG'G G CG'EA' G IAEA A DE EG"G'N FE IA P AEA' T ' E A E F A ' PG A $IA A F A DF'K FKE BK I CI IAK CF' BA EIFOA' M GD IA P"FCAE $IA + OA GM G MG"O F'J -G J 'JA" A"" DA IF IAK "" BA IA 'E L DA' E GM F' F" A F G' $IA =F IG" CE F A F D 'N 'JA CG A GM F' G JA M GD IA R AA' MG IA AQ PL DA' GM IA D E A E/ F'J IAK I IA M A'JE

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FDG'N IA !AA E AP AEA' IA FE DFHG K GM IA 'F G' $IA ' A P G' GM IA FJA "" E MM CA GM EA"M G CF EA F A G" G' =F A G'"K E 'ACAEEF K IF 'G ' G F J FCC JA' GCC E DAF' I "A '@"F'JA E/ F'J FNF 'E I E IA EJGD F'J F"G GM IA + OA "" P G JA

X IF A"AF ' M GD IA + "EA GM G MG"O IF IAK DAF' G EFK G J EEG'"A ""A > A A""E DA IF D E 'G BA J EP"AFEAJ IF IA IFE CG'EA' AJ G /BACF EA IA I E EAC AE I E ' ' A P AJ FCCAEE G IA R AA' F'J "AF 'E IA EAC A E GM IA G IA PF o $IAK F A A(ADA"K HAF"G E F'J E EP C G E TK'N F J IF A BAA' PF F""K ADG AJ/B DK IG EA E F CIAJ BK EP AE F'J IA A F A EA' 'A"E F ' NI F IA JGG E E AEEA' F" IF IA FJA I @ F'CA BA OAP C"GEAJ * IG G" F'J F" D IAK CF''G CG' ' A IA C"G I DF' MFC A F'J IA' G O E E"FCO F'J CGDDA Cb E EPA'JAJ IA' IAK "" M"K G F DE

$IAEA "A A E A(P"F ' IADEA" AE IG M IA CGDDA' $IA A *A A G P GHAC E G' MGG G AFCI GM I CI IA #PF'EI DBFEEFJG FE F PF K/ G'A FE FDG'N IA G IA '"G JE GPPGEAJ G G MG"O MG F =F IG" C 'E AC G' IA G A I G GM 9" UFBA I F'J F DF FNA M ! I " P E EF'C G' CG "J BA GB F 'AJ MG BA AA' IA R AA' GM #CG E F'J +G' `G I ' F EACG'J PF K IAFJAJ BK G MG"O I DEA"M JAE AJ F CIF'NA GM NG A 'DA' F'J IA F AE F'J P GBFB"K IA JAF I GM =AC " $IA 9F " GM - A CAE A IG BG A =AC " 'G NGGJL "" F'J IG MAF AJ IA CG'EAQ A'CAE G I DEA"M GM F A ' G PG A GM IA G"J 'GB " K M IA IFJ 'G

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I IAD M IAK FPPAF AJ "OA"K G E CCAAJ
FE F CG'EP FCK "OA IF I CI IFJ G A I G PB FK
= G F A. \ EG 'AF "K JA' CF" IF =AC I DEA"M
CG "J ECF CA"K IF A BAA' 'CG'EC G E GM IA AEAD
B"I'CA >A IFJ 'IA AJ = GD A" E PG" CK F"
PG ' E A(CAP E G"A'CA > E IF'JE A A FE KA P A
M GD B"GGJH F'J IA IFJ 'G EG NI IGEA ' J G E
PA EG'F IG'G E I CI IFJ EA IA B"GGJ GM IA G"J
PAA E G' M A 'F" A"EA IA IFJ GJJA' ' IA EFDA
E APE F'J IFJ B G NI PG' I DEA"M IA EFDA IF AJ

' &'CD: :' C =:CD< B:=' $C 9$E F'
$J: 'H@$D:'$ ' 9:' H$@$D:' 9D9' C
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B '3$' +> 9:' A[:@> ' C H<>B$B@ '
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+ '3><=' >?' 3: D:C :<' $C' ' 9 F9'
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$ =' 9:'2;J:'F> F';H' >' 9:'%;:: '
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F<:$ ' = C <:CC' 3$' +> 9:' A[:@> '
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% BAE JAE IAEA GECIADAE IA A FE F I J '
I CI|IA CIFDA"AG' G MG"O FE AF 'N MF J MMA A'
CG"G E - OA F P JA' NFDB"A IA J J' 'G EO I E
MG 'A G' IA E CCAEE GM F E 'N"A EPAC "F G'
E 'ACAEEF K G NG F" "A BFCO
"" BA ADADBA AJ IF IA CG'MA A'CA F VG O
FE B GOA' P G' IA APG AFCI 'N IA R AA' IF F
DF FNA FE F"OAJ GM BA AA' G MG"O F'J IA R AA'
GM #CG E $IA + OA A 'AJ G -G'JG' E FNNA AJ BK
IA E NI GM IA"A A E G %G I A"" F'J J E 'C" 'AJ MG
IA FJ A' A >A CGDP"F 'AJ G 9"UFBA I \ PA IFPE
' NGGJ MF I GM IA E G AE I CI A A FB GFJ FBG
I D/ X IA APG AJ DF A E GM IA R AA' GM #CG E G
I 'O IA 'G DAA G BA IFJ BK I D ' DF FNA
F'J P G AE AJ IF IA IFJ 'G ' A' G'E GM IA O 'J
9"UFBA I 'G F" GNA IA EF EM AJ F'J O'G 'N IA
'J CADA' E I CI IFJ BAA' F'J G "J FNF ' BA IA"J
G G I D EF J X IF F" IG NI IA J J 'G D E" OA
GM KA IA D NI PA CFEA BA 'J CAJ G" OA GM MG
IA BA'AM GM IA ?AF"D G PA CFEA MG IA G
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G MG"O F'E A AJ BG"J"K X IF ' 'G AFEG' CG "J DG A
I D G" OA IA IF IFJ BAA' F CGDPA G MG IA
= G ' M IA TFHAE K IA EA"M G "J DG A I D G
IA G "J F IA BA CGDD AJ G IA $G A MG IA
'A A DAF' G DF K I E CI F PA EG' IA A IA
CG "J 'G BA E A GM I E P ""G

$IA R AA' X J J A"" F""G I E AIADA' J E" O 'N
GM IF DF FNA $IA + OA P G AE AJ FM A F JE
IF F IA DA IA DAF' IF IA EF J/ F'J 'GL
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F IA EACG'J CG'MA A'CA I CI G "J DP"K IF IA
IFJ F""G AJ I E D 'J G A ' G IA E BHAC VA V
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MFDK I CI G "J F FCI G IA R AA' GM #CG E BK IA !AB F K
A(PGE A I CI IA IA' BA" A AJ 'A FB"A/ G IF IA
IFJ PA D AJ I DEA"M G BA F"OAJ G A BK TF "F'J
) M F"" IGEA IG IFJ BAA' PF AE G IA P GCAAJ 'NE
F >FDP G' =G IA 9F "GM T FK IFJ DGE AFEG'
G CGDP"F ' >A IFJ BAA' 'J CAJ FNF 'E I E ""G
FCC EA I E D E AEE KA EIA IFJ 'G BAA' CG'JAD'AJ
>A BA" A AJ \ F'J I E MAF E A A CG'M DAJ BK F IG EF'J
P F A FEE F'CAE \ IF EIA G "J " DF A"K BA AL
E G AJ F'J IA F'J I E M A'JE FM A IA PF I CI
IAK IFJ FOA' G "J IA' BA A A FB"K 'AJ >A
FE G"J IF BK P GJ C 'N IA "A A E IA IFJ DG F""K
GMMA'JAJ IA + OA GM G MG"O F'J IF M IA "AM
-G'JG' IA + OA E F'J 'N J ECG' A' AJ X IA G "J
IF A I E I GF C 'BAMG A IA AFCIAJ %A CO X %A 'N
FE IA EF J X F IA A DGE PG ' GM I E G DFN 'A
IA A DF A E G "J A'J IA CG'EA' AJ G F P F A
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VG O F'J M E AP GFCIAJ I D MG F' GM CG'E JA FL
G' MG I E E E A >A AP" AJ X IF EG MF M GD 'G
"G 'N I E E E A EIA FE IA C AF A PG' AF I IA
"G AJ IA BAE >A 'A A EIAJ IA IF D/ IA G '
P AEE 'N FE IA GCCFE G' GM IF I CI FE A AJ G
IA 'MFDK
 $IA + OA IA' EPGOA GM IA DF FNA GM IA E CCAEL
E G' G IA = G ' F'J IA 'ACAEE K GM EA " 'N GM
IA DPGEE B " K GM M 'J 'N F'K G IA PA EG' ' IGEA
MF G ' G "J BA JA A D 'AJ/ F'J IA F"" JAJ G IA
' G' GM IA AF"DE/ G IA Q A GM #CG "F'J \ G F""

IGEA E BHAC E I CI BFJ BAA' J A" PG' FNF ' F' J FNF ' ' F' J A A MFD " F G BG I' GM IAD ' IA GFJ
@AB TOO - K IA ' F F ' DA' ' "FK I G NI' IA R AA' GM #CG E' DF FNA I' EGDA 9 ' N" EI' / ' GB"ADF' IG G "J' BA' FN AAFB"A' G' F"" PF AE/ F' J' IA + OA' DP" AJ' IF ' M' IA' I DEA"M A A' FNF ' ' G' I ' O' GM ' IA' R AA' GM 9 ' N"F ' J' G "J' DFOA' ' G' GBHAC G' ' >A' J J' ' G ' J AC "K' DA' G' ' I DEA"M ' B ' IA' "A" ' T FK' G' ' JA L E F' J' IF ' IA' DAF' ' >A' J J' ' G ' EFK' IF ' 9" UFBA I' G "J' CG' EA' / KA ' I E' G JE ' F' J' X IA' C C DE F' CAE' GM' IA' CFEA ' NF A' T FK' DF A ' A' G NI' G' I ' O' IF ' EIA' IFJ' BAA' ' MG AEAA' ' ' IA' + OA E' JAE N' ' #G' MF ' FE' IA' G "J' O' A ' IA' + OA' FE' F' ! G AE F' ' $G' T FK' ' CG "J' AFE "K' BA' AP AEA' AJ' IF ' F' DF FNA' BA AA' ' I D' F' J' IA' R AA' ' GM' #CG E' M' EF' C G' AJ' BK' 9" UFBA I ' G "J ' 'JA ' IA' P AEA' ' C C DE F' CAE ' BA' IA' BAE ' N F F' AA' MG ' IA' E FB " K' GM' IA' ?AMG DAJ' MF I ' >A' IFJ' IAF J' EGDA I ' N' GM' IA' ECIADA' MG ' IA ' DF FNA' I' +G' ' `GI ' ' F' J' E ' CA' CGDP GD EA' EAADAJ' ' G ' ' A FB"A ' I E' PA IFPE' FE' IA' BAE ' MG D' ' ' I CI' ' CG "J' FOA' AMMAC ' >A' G"J' IA' + OA' IF ' X' FE' EGG' ' FE' I E' E E A ' G "J' APA' ' GM' IA ' JG ' NE' EAPF F A' IA L EA"M' M GD' %G I A"" ' F' J' BA' HG ' AJ' I' E CI' F' PA EG' FNA' FE' FE' FMMAC G' AJ' G' IA' A' A" N G' ' IGD' #CG "F' J' D NI ' E ' IA' G "J' "G A' IA ' FE' A"" ' FE' A A ' IA' J J' ' ' I E' " MA/ M' IF ' PA EG' ' EIG "J ' BA' IA' + OA' GM' G MG"O' IA A' FE' ' G' A' IA' G "J' " OA' BA A ' P G JAJ' IA' R AA' ' CG' EA' AJ

#G' IAK' PF AJ ' $IA' + OA' G"J' I D' G' A"" ' G' G' A' B ' TF "F' J' IF ' IFJ' PFEEAJ/ F' J' IA' P GD EAJ' G' CGDD L ' CF A' J I' I D' FNF ' ' IA' ' C C DE F' CAE' PA D AJ' TAF' I "A' IA' EA' ' G JA E' G' IA' G G' E' G' X E FK' IA

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DG"AE AJ G' I E FK BFCO G #CG "F'J '
M A I E ' A A G MG"O G' P"AF GM E CO'AEE TOQ @AB K
FE MG EGDA AAOE FBEA' M GD IA =G CG AEPG'JL
'N I G NI ? JG"M I +G' 8 A F F'J MAA" 'N I E
FK DG'N IA G IA PF AE ' G I CI IA =G 'C "F'J
IA !AA E A A J JAJ $IA GP ' G' I CI IFJ BAA'
A(P AEEAJ EG BG"J"K BK # @ F'C E 7'G""KE IF IA
R AA' FE 'CFPFB"A GM CF K 'N I G NI F'K BG"J
G CG'E E A' CG EA FE EIF AJ BK A A KG'A "" "
A(PAC AJ IF =AC " E JAM F'CA GM #PF ' G "J A'J '
' M IA R AA' GM #CG E FE G CG' ' A ' 9'N"F'J
FE F PA PA F " 'E NF G G CG'EP FC AE/ F'J FE IA A
A A G PF AE FDG'N IA =F IG" CE EG FDG'N IA
DG A DGJA F A ! G AE F' E IA A A DA' IGEA "GKF" K
G 9" UFBA I FE 'JG B AJ I "A IAK A A FEE AJ
 IF I 'NE CG "J 'G EFMA"K CG' ' A FE IAK A A M
TF K # F A A 'G G BA J EN FCAJ FE AF""K
'ACAEEF K G DF K IA G EGDA 9'N" EIDF' GM F'O
IGEA PF G ED CG "J BA A" AJ PG'/ F'J IAK GG
MG IA EFDA AFEG'E I CI IFJ BAA' "F J BAMG A T FK
FN AAJ G' G MG"O FE IA M AE PA EG' -A CAE A
M 'J 'N PA IFPE IF IA =F IG" CE "GGOAJ CG"J"K
G' I D I IA 9F " GM !ADB GOA F'J # CIG"FE
$I GNDG G' A A IA "AFJA E GM I E 'A MFC G'
$IAK GGO IA % EIGP GM ?GEE ' G IA CG'M JA'CA F'J
IA % EIGP FM A CG'E " 'N G MG"O FN AAJ G FEE E
$G +G' 8 A F G MG"O IFJ AP AEA' AJ I DEA"M FE
G'"K F'(G E MG IA AE G F G' GM =F IG" C ED $IA
CG'J G'E GM IA 'A F"" F'CA A A F' AFE A A E G' GM
IA A DE M E P GPGEAJ F VG O FE IA BFE E GM IA 'L
A'JAJ CGDP GD EA/ F'J/ E P GBFB"A IF G MG"O IFJ

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"" G E F' J 'N Q F A"E ' #CG "F' J A A G BA CG'E L
JA AJ F ' F' A' J/ IA FBJ CF G' F - GCI"A A FE G
BA CF' CA""AJ/ IA D JA MG NG A' F' J A" N G E NI E
AEPAC AJ P' F"" E JAE $IA R AA' GM #CG E FE G
FBF' JG' IA MG A N' ' N AE F' J F"" F' CAE F MK IA
AF K GM - A I F' J BACGDA F DADBA GM IA = I CI
GM 9 'N"F' J IA A EIA FE G CG' ' A G AE JA $IA
N F F' AA MG IA NGGJ BAIF G G "J BA IA DF L
FNA I G MG"O F' J IA G ' FDB G' F' J IA
F' K GM #CG "F' J FE IA' G BA N F M AJ' BK IA A'
F "DA' PG' IA GM IA 9 'N" EI C G ' $I E F F' NAL
DA' FE E PPGEAJ G "J EF EMK IA DGJA F A GM
F"" PF AE ' BG I CG ' AE F' J G "J FOA M GD
@ F' CA F' J #PF ' IA BAE P A A(MG ' FJ 'N
9 'N"F' J F' J IA BAE CIF' CA GM E CCAEE M IAK DFJA
IA F ADP 9" UFBA I FE 'G G BA CG'E " AJ "" IA
R AA' GM #CG E CG' EA' IFJ BAA' GB F 'AJ F' J "" A A K
EAC K IFJ BAA' P G JAJ MG IA EA"M I CI EIA CG "J
PGEE B"K JAE A \ PA IFPE "" EIA CG "J BA ADP AJ I
F IGPA GM ACA 'N F '"FE FE PF GM IA EFDA F F' NAL
DA' IA IF' J GM IA FJG AJ - A CAE A > A F 'F"" A A' E
FE IA DGE FC A ' IA 'ANG F G' $IA % EIGP GM
?GEE E NNAE AJ IF - A CAE A EIG "J I DEA"M DF K IA
R AA' GM #CG E B IA 9F " XMG DF' K AFEG' E CG'E JA AJ
I DEA"M ' DAA MG IF IG'G > A EF J X IA J J' G
E PPGEA IA + OA G "J I 'O GM A(CAP FE MG
IA BA'AM GM IA R AA' F' J IA AF"D/ B X IA CG'L
E JA AJ IA A FE 'G BA A ADAJK MG EG JF' NA G E F
GDF' F' J G "J BA A"" G DFOA F A GM
'ACAEE K M IA R AA' E T FHAE K G "J F"" G ! ADL
B GOA EAJ IA EFDA "F' N FNA $IA R AA' IA IG NI
G "J M ' J IA EA"M 'FB"A G OAAP IA R AA' GM #CG E
P EG' A / X F' J EAA 'N IA AE F A GM I 'NE EG N AF "K

CIF'NAJ ' @ F'CA F'J #PF ' F'J IA 9F GM T FK = !
E F'J 'N ' EG CO"A A DE ' #CG "F'J IA FE X GM ' ·
GP ' G' y'J # CIG"FE FN AAJ I I D X IF MG 51<
IAEA CF EAE F'J G IA E I P G E G' DFJA IA > NIL @AB F K
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FNA I IA + OA M IA + OA I DEA"M G "J CG'EA'
G

$IA % EIGP GM ?GEE 'JA GGO IF I E D E AEE G "J
JG F'K I 'N I CI IA R AA' GM 9'N"F'J F'J IA 'GL
B " K JAE AJ $IA + OA X I F"" DF' 'A GM AF 'AE L
'AEE FE M IA IFJ F AJ MG I E FEE F'CA P GMAEEAJ
I DEA"M "" 'N X " IG NI IA EF J X IA G "J P AMA
G ADF ' 'DF AJ KA M IA R AA' GM #CG E G "J
FCCAP I D IA G "J BA CG' A' G EFC M CA I DEA"M
MG X IA A"MF A GM I E CG ' K

? CIF J =F A'J EI F EG' GM -FJK #I A EB K BK F
P A G E DF FNA A' JG ' G IA R AA' GM #CG E
G' BAIF"M GM -A CAE A I P AEA' E F'J CGDP" DA' E
$IA R AA' GM #CG E CG'M DAJ IA % EIGP E A'NFNAL
DA' E MG IA / F'J FE FN AAJ IF IA' IA F F'NAL
DA' E A A E M C A' "K FJ F'CAJ TF "F'J EIG "J CGDA
P M GD #CG "F'J F'J ' IA ?ANA' E 'FDA DFOA F
MG DF P GPGEF MG IA DF FNA

"" I E IA + OA GM G MG"O CG'CAF"AJ CF AM ""K M GD
+G' 8 A F $G IA DBFEEFJG IA AP AEA' AJ I DL
EA"M FE EAAO 'N MG 'G I 'N B F A ' G CGDD ' G'
I ?GDA >A FE P"FK 'N I F""E JAE MG F""A A' E /
' CFEA 9" UFBA I MA"" G FE CGDPA""AJ G EFC M CA IA

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' &8> F' 9:' H<:C: CY '$C' C9:' C::8:=' >' 9:' $?<$ =' >? H> C> ' Y ' 3:D:C :<' C: ' 9:<' $' 9<:' CH:D $@' H<:C:<E$ E:C' ' '$' C > :' ' $' F>@=' B>7 '$'$' C @E:H' B>7' E= 9' + 9< =$: ' $ ='$' 9>< '>?C>8 :'B:$C Y E * ' ! '3+

D ' E A E IA EIAJ G BA FB"A G P"AFJ I E EA CAE I
! I " P F' J GB F ' IA IF' J GM IA R AA' GM #CG E '
IF FK ' EP A GM IA JAE A GM IA G IA ' 'GB"AE
G EAA IA DF AJ G +G' `GI' > A FE JACA 'N
+G' 8 A F F' J IA FE JACA 'N F"EG - A CAE A F' J
!ADB GOA/ I "A IA R AA' GM #CG E F' J IA % EIGP GM
?GEE A A ' A ' P"FK 'N PG' I D * I "A IA
+ OA FE PA E FJ 'N I DEA"M IF ' G'A FK G IA
G IA IA FE DFO 'N E A GM IA / I "A G I D' EIA
P A A' JAJ IF EIA IFJ 'G G IA JAE A/ IA % EIGP GM
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IAF EIA ' A' JAJ M EIA CG "J G FOA F #PF' EI
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DAF'E G 'MG D +G' 8 A F IF F" IG NI IA PGL
E G' GB" NAJ IA G ADPG EA F' J EAAD G FCQ n AECA
' IA P GPGEF"E I CI A A DFJA G IA KA ' A" N G'
F' J ' A A K I 'N A"EA EIA FE ' AF" K F ! I " P E
J EPGE G'/ ! I " P E P"AFE A EIG "J BA IA E/ F' J
A A EIA F " BA K EIA G "J 'G DF K IA + OA GM
G MG"O B G "J P"FCA IA EA"M F' J IA EG' 'JA
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9 :' H:<C> ' :(E =: @ ' 8 :$ ' *9 :<:'
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_' 2 > 8 :' H$< :' =:' @>' L ; :' H' , '
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E :C:' 8 ; D9>' 1<:F ; e 8 :'C' : $'
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_' 3 $' = D9$' 5 : $' = D:' L ; ['C' : @@$'
:C ; E :C:' : '@ B:< $=' e' C:' @:' = :<$' $@'
C>D> * ' L ; :' D> ? $<$' <: = ; D <' D> ' [@'
C ; ' 5 : >' X' C ; ' >B: = : D $ ' L ; :' X' C ; '
H:<C> $' X' @$' =:' C ; ' 9 >' : <:F$<$'
: ' H>=:<' =:' ' + $F= 'H:<>' L ; :' $9><$'
C:<X' ?><Q$=$' C:F ; <' ' > 8 $<' :@ : 8 H>'
D> 8 >' E : :' ' >=$' E $' >' C:' H< $<X'
$ 8 $C' =:' @$' E>@ ; $=' =:' ' + $F= '
$CC' : ' @>' =:' @$' <:@ F > ' D> 8 >' : '
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' ' TOQ ' iCj

TAF' I "A F" IG NI 'AF IA E MFCA IA 'J FE
DG 'N ' IAEA 'CA F ' AJJ AE IA PPA C A' GM
A A' E F' J FC G'E FE G"" 'N E G D "K G' F JE $IA
'H K G 9 'N" EI FJA FE "AEE FBEG" A IF' +G'
8 A F A(PAC AJ ' A A' F P A I #PF '
IFJ BAA' MG AEAA' F' J P APF AJ MG # >A' K 9" "
"AN A J 'N IA PFE KAF IFJ BAA' 'ANG F 'N M AEI
GPA' 'NE ' IA PG E GM IA %F" C F' J >FDB NI FE
"" 'N G FOA IA P"FCA GM ' A P FE IA DF M GD
I CI 9 'N" EI NGGJE CG "J BA CF AJ ' G 8A DF'K
$IA DA CIF' FJ A' A E IFJ P EIAJ IA FK G
TGECG F' J A A' G !A E F $IA AE A ' DF 'A E
IG P AMA AJ $ O G =F IG" C F' J G' IA IG"A AL
NF JAJ I D FE F BA A =I E F' A A FJ 'N X P IA
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CIA""A CG "J E PP"K IA BAE 'AE F' J M E GM @ F' CA/
?GCIA""A P F AA E ' A CAP AJ IA AEEA"E I CI EF "AJ
M GD IA =F IG" C IF BG E F' J IA CF NGAE "FK AFJK
P "AJ MG A(PG ' IA > N A'G E G AIG EAE $IA
PFEE 'N "GEE G "J BA CG' A AJ G NF ' BK 9 'N" EI
A'A NK F' J EP F' J G' IAEA =AC " MG I E PF FE
"" 'N G A"K + EEG' "A ""A ACA AJ IA F'E A F
"FE I CI +G' 8 A F A(PAC AJ >A FE G"J IF
IA R AA' JAC" 'AJ G 'ANG F A I " F $IA
7 'N GM #PF ' D E EA' J F CGDD EE G' J AC "K M GD
I DEA"M M IA A"F G'E BA AA' I D F' J 9 'N"F' J A A
G BA A AE FB" EIAJ $G N A ADPIFE E G I E IJ EL
D EEF" IA EI PE I CI AECG AJ I D BFCO G + 'O O
'JA I E A K AKAE I 'NA' G E 'EG"A'CA C G
M GD =F"F E GFJE F JGUA' CI #PF' EI DA CIF' DA'
F' J E AP IAD BFCO ' G IA $IFDAE ' IA =IF' 'A
F' J G GM ' ' IF BG F' J ' IA GPA' EAF\ IA A
A A F AEEA CG "J BA MG 'J I F =F IG" C G 'A
FE P" 'JA AJ BK IA 9 'N" EI G A E #GDA"FK '

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+ $<D9

F MG E CI EI PE F' J NF"" AE FE CG' F 'AJ @"AD EI P EG'A E IGD IAK G "J EA F " BA K) IA E P" 'NAJ ' G IA #PF' EI PG E IADEA" AE G AEC A IA 9 'N" EI AEEA"E C A E F' J CF NGAE I CI A A JA F 'AJ IA A FBJ IA"P 'N IADEA" AE G F' K F" FB"AE I CI IAK D NI A'CG ' A ' IA P GCAEE G' EAF G EIG A $IA P EG'A E IGD IAK GGO G' IAEA A(PAJ L G'E IAK B G NI IGDA FE IGE FNAE MG IA CG ' KL DA' CFNAJ IAD ' IA IF BG NFG"E F' J G AJ IAD I JF "K IGD " AE M GD ! G AE F' D ' E A E f $G IA KA JAAPA J E AEE GM ! I " P IA IG EA GM G'A GM IA "F NAE #PF' EI DA CIF' E '-G'JG' FE EAF CIAJ BK 9" UFBA I E PG" CA/ IA M ' A GM I E CIFPA" IA C C M (AE IA DFNAE GM IA EF ' E A A CF AJ F FK BG 'A 'DGCO P GCAEE G' I G NI IA E AA E F' J B ' ' ' =IAFPE JA FD JE IA HAE E GM IA PGP "FCA IG C AJ FE IAK EF IAD B"FU 'N X $IAEA F A IA 8GJE GM #PF ']\ G IA M"FDAE I IAD F' J G IA M"FDAE I IA G EI PPA E]

 F"" I E G O =AC " "GGOAJ G' CGDP"FCA' "K f F' J

' <>'C : :' $E >C' F@:C:C'H:@:X(' <> ' D> ' =>C' $E >C' ,CH$u>@:C' =:' HCCF:' D$<F$=>C' =:' ?$<=:@:C' =:' ,@'$ =:C' ':@' ; >' $E >' :CD$He' =:C\ >C' D> ' 8 ; :< >' :@' 8 ':C <>' =:' :@@$ ' 'D$H X ' '> <>C' L ; $ <>' D> 8 H$u:<>C' ' :@' > <>' $E >' L ; :=e' H:@:$ =>' D> ' :@@>C' =:' L ; :' >' C:' C$B:' @>' L ; :' C:' B$' B:DB> ' :@' D ; $@' $E >' <$ $' - ,' ?><\ $=>C' =:' A@$ =:C Y ' ' / ' + ' ' ' ' = -/ ' ! ' ' ' 5 '

' $' " $' $E:' F@:C$' B$' E: =>' =:' F>' L ; :' : E X<> ' =:' $L ; ' $< 8 $=$' H$<$' CD<' @>C' F@:C:C' ' <>H$' L ; :' $@@ ' : $ ' 'C:' = e' B ; : $' 8 u ' ' C$De' =>D:' 8 :<D$=:<:C' ' D : >'

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' 2 > ' 4 ; : <$; ' >' &@E$ ' & H< @' M ' *B:' @: :<' 8 : > C' 8 $ ' > 9 :<' > ; <$F:C' B ; ' F ; C ' 9 C' @$C ' :CH:(' =$@@ ' 1 9 @ H' CD><:=' ' 9 :' 8 $ F ' 9 C' $F $:=' 8 $<JC' >?' = C <:CC

_ / $@?' =:H<:D$ F@ Y $C' H:<9$HC' B: F' > ' L ; :' D:< $ ' >?' 9 C' 6><\ <:CH> =: Y 9 :' <> :' ' 9 :' 8 =C ' >?' ' >' ! <' / : < ' ! = : Y *9 :' $<<:C 'B: : : ' ; C' $ =' A@ =:<C' D> (' ; : 9' C @ ' ' > :' C $: ' C$E F' 9$ ' =$ @ ' C9 HC' >?' # F' 1 9 @ H C' 9 ' 8 :<D9$ = C: 'D> 8 :' 'C>' H@: (

I @ F'CA IA MG""G AJ IG NI'"AEE GPA'"K IA EFDA F JFC G E PG" CK $IA M"AA I CI -F TG IA IFJ J EL CG A AJ G BA '' P APF F G'' EF "AJ 'JA # * "" FD * ' A MG 7GC" A""A F'J' CF AJ E PP" AE G =G Jb 8 'E F'J PG JA A A "F'JAJ IA A F'J FE D CI DG'AH FE 9" UFBA I CG "J EPF A -F TG IA F AJ G' IA G ADG'E F A/ F'J GM CG EA EIA P G AE AJ IA ''GCA'CA #IA EPGOA I IA E G'NAE EAAD 'N J EFPP G F GM =G'Jb F'J P GMAEEAJ G BA JA" NI AJ F IA E CCAEEAE GM IA = G ' % - F TG IA IFJ IA DGE A(FC 'MG DF G' #IA IFJ CG'EA' AJ A" C F' "K/ B EIA IFJ CG'EA' AJ 'A A IA"AEE $IA GPA'' EF " 'N G JA E G * ' A J CG' F 'AJ 'G DA' G' GM IA ! 'CA 'G F'K 'J CF G' IF IA FE G ACA A FEE E F'CA/ B M IA 'E C G'E IFJ BAA'' FJJAJ F P F A 'G A I CI =AC IFJ J F '' F'J IA R AA'' IFJ E N'AJ * IG A(PGE 'N IA A FE G' IA DBFEEFJG 'E E AJ G' IF FE GG PF A' J JA'K IG"A M"AA GM 9'N" EI G A E A EF " 'N 'JA =G'Jb E M"FN F'J EA"" 'N IA P UAE FE IAK GGO IAD '! "KDG I F'J +G A M EIA FE IA EA"M ''GCA' 'IAEA DF A E EIA FE AEPG'E B"A FE F EG A A N' MG IA FC E GM IA G 'GMM CA E F'J E BHAC E/ F'J G' IA U I GM TF CI 'JA G JA E M GD !F E IA GMMA AJ IA PAFCA G F M EIA CIGEA F ' EIG "J BA F GPA'' F'J F G AJ/ M PAFCA IA P F AA E D E BA CF""AJ H' F'J IA 9'N" EI IF BG E C"GEAJ FNF 'E IA'' > L N A'G E >A F""G AJ IA M M AA'' JFKE G CG'E JA IA F'E A

?;@@ '$C 'H>@ D ' 8 $ ' :8 H 'C>8 :\
9$ ' > 9 :< C:' >' B:' => :' 9$ ' $C'
8 :$ '$ ' 9:' B:F F' ' 8 C:@?'
@ J:' H: D:' B:C '?><' 9>;F9' ' $<C' '
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8 >C % ! ' ' ' A:B ' KU'
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$I AF E GM I E O ' J =AC $'BA" A AJ IF EIA CG "J EFMA"K JAMK * F I' @ F'CA G "J 'G BA 'PGP "F '9'N"F'J * IA A IA =F"F E G 'J FE E ""' F'"J 'N #CG "F'J F'J IA P EG'A F %G" G' A A PG A 'L A A F A J MM C " AE) ' I E E BHAC GG F IA C"GEA GM IA CG'MA A'CA -F TG IA IFJ A' AJ F A'FG' E F'CA/ B IA A 9" UFBA I' FE G'M DA N G 'J F'J CG "J EPAFO I' CG'EC G E ' AN K X #IA IFJ 'G CF EA EIA EF J P G J"K X G CIF'NA IA PF"A CG"G MG F'K'CIF NA I CI CG "J BA B G NI FNF 'E IA MG IA AF DA' GM IA E E A ?F IA M'EIA FE P AEEAJ EIA G "J'EIG DF A MG IA H E M CF G' I CI' G "J C DEG' IA CIAAO GM IA R AA' GM #CG E $IA + OA GM =IF A"IA F " IFJ CGDA G -G'JG' G F CI' IA P GCAEE I A'J GM 'EIA J ED EEAJ I D' I F' ' DF G' IF EIA ' A'JAJ G E PPG T FK F'J EIA "A' T FK I DEA"M I AA IG EF'J PG 'JE F I E JbPF A MG #CG "F'J G FEE E I D' F""K 'N I E M A'JE #IA NF A I D G 'JA E F'J IG A A _F'J FE I E I CI' BA FKAJ I D G I E CG AEPG'JA'CA I' G MG"O&' IF EIA CG "J 'G 'JA FOA IA PA L PA F"C E GJK GM IA R AA' GM #CG E @G IA A(FDP"A E EFOA EIA CG "J 'G ACGN' EA IA NI GM E BHAC E G ABA"/ F'J IF A A IA MF " E IFJ BAA' EGDA F F'NAL DA' G "J CA F '"K IF A G BA DFJA MG I E E E A A ' $IA CFEOA "A A E D E 'G BA P B" EIAJ >A D E CG'E " I' I E P F K F'J EA'J IA P IA CG' J G'E 'JA I CI' IA AE G F G' CG "J BA A' AJ TAF' I "A IA 'M"FD DF G K "A A E I CI' TF K # F IFJ A' G IA >FD " G'E F'J F NA'A F" O'G "AJNA GM IA 9'N" EI ' N AE DP AEEAJ G'

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9"UFBA I IA 'ACAEE K GM ADG 'N IA G EGDA ('
E F A C E GJK -FJK #C GPA FE G MG"O E E E A
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BA MA" A AJ GM I E CIF NA F'J TF K'# F FE F'EL
MA AJ G $ B K IA A EIA FE G BA MG IA M A
PJ IA CF A GM IA 9F "GM #I A EB K $IA ADPA
GM IA 9'N" EI 'GB"AE GB" NAJ IA R AA' G BA DG A
IF' E F""K C C DEPAC ' IA CIG CA GM IA PA EG' IG
FE G 'JA FOA IA 'N FC G E GMM CA $IA 9F "GM
 #I A EB K FE EA"AC AJ BACF EA IA FE IF"M F=F IG" C
BACF EA IA BA"G'NAJ G IA PF K IG IFJ BAA' D CI
'MF G GM IA R AA' GM #CG E E CCAEE G' F'J BACF EA
IA AMG A IA M A'JE CG "J MAA" IF ' I E IF'JE EIA
FE ' 'G JF'NA GM MG "P"FK 9"UFBA I PA IFPE
' A'JAJ G EAC A I E"GKF" K BK P"FC 'N CG'M JA'CA '
I D M A FE CIF NAJ G P A A' IA R AA' GM #CG E
 AECFPA B X G AF IA I IA IG'G F'J A A A'CA
J A G F P 'CAEE GM IA B"GGJ GKF" >A FE 'G
IG A A G CF K I E ANF J GG MF X%AE JAE IA
AIADA' P AE DP G' FNF 'E IA MG IA IG B"A
D JA 'N GM IA I EBF'J IA FE DFJA FCQ F ' AJ
X I G IA PF C "F AE G A'FB"A I D G AP"K G
IA CGDP"F ' E >A FE JAE AJ G A""IA IF M EIA
FE G A "G J ' IA G C AE X D NI BA F' GCCFE G'
IF IA IG"A CF EA F'J JG 'NE EIG "J BA P B" EIAJ
G IA G "J F'J IA AGM G "J MG""G DF'K I 'NE G
IA P AH J CA I CI EIA F'J IA M A'JE G "J AN A
9"UFBA I F IA EFDA DA G A F MA " 'AE G IA
G ACG'C "A IA G IA CG'J G' F'J G FEE A IA IF
'G IE F'J 'N IA ADG F"M GD %G" G' X M 'G DPAJ L
DA' FE D ' E A AJ BK IA EA"M EIA G "J FOA CF A

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F' J IA P F AE EIG "J DAA IA JAEA E
>FJ =F IA 'A JA TAJ C CF AJ DG A MG IA =F IG" C
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G "J IF A IFJ F M A K F" BAMG A % FE ! I " P
CG "J' G PA D IA @ A' CI G ' FJA 9 'N"F' J EG =F IL
A 'A FE FE" "A FB"A G "GGO CGDP"FCA' "K PG' F A GL
" G' ' MF G GM #PF ' / F' J IA DG A "G' N E NI AJ
GM IA =F IG" CE IADEA" AE BANF' G MAF IF A" N G'
G "J BA "GE E NI GM ' IA Q F A"E GM IA G N AF
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"F' J EIG "J BA "A F"G'A/ IA A GM ' A MA 'N G "J G A NI IA NGGJ +G' 8 A F IFJ JAE AJ IF G ' ' C AFEA IA DA CF' "A P AEE A ' -G' JG' IA 9 'N " EI EIG "J BA A(C" JAJ M GD IA PG E GM @ F 'CA X O 'G 'G IF G I 'O FBG I E -F TG IA @b 'N"G' G A G I E EG A A N' X DFK BA IF IA + OA GM " F DAF 'E G '"K G A(G M GD 9 'NL "F' J APF F G' MG I E G ' G 'NE F' J IA' IA IFE DP" CF AJ KG T FHAE K ' IA Q F A" "" DFOA P I E G ' J MMA A 'CAE I IA R AA' F' J "AF A IA E G D G MF"" G' KG M 'DFK A' A G FJ EA KG TFHAE K "" ADF ' G' NGGJ A DE I IA !GPA F' J IA =F IG" C 7 'N B KG "" ADF ' F"EG F PAFCA I I E AF"D VG DFK A"" IA =G 'C IA A IF 'FED CI FE IA CG' J C IFE BAA' EG G FNAG E BG I G F JE IA=F IG" CE F' J IA R AA' GM #CG E/ 'FED CI FE IAK IF A F""G AJ EG DF 'K IA A CE G CG""AC IA A M GD F"" PF E GM 9 GPA F' J IF A DFJA 9 'N"F' J IA MGC E GM EG DF 'K IA A C CG' EP FC AE F IA AQ AE GM I E >G" 'AEE F" F' GGPE "" BA E F G' AJ ' G DF 'JK VG DFK EFK IF IA 7 'N GM #PF ' IFE AQ AE AJ KG G CG GPA F A I I D F' J ' J K G KG G ' E BL HAC E KG D E P G AC IAD M GD IA 9 'N" EI P F AE/ B F IA EFDA DA KG "" N A IA + OA GM " F G 'JA E F' J IF @ F 'CA CF' 'G PA D 9 'N"F' J G BA CG 'Q A AJ BK #PF ' / IA DFK JG IF A A IA DFK I 'O' 'ACAEEF K MG IA ACG A K GM IA E G"A' DG' AK \ B KG CF' 'G F""G I D G DFOA F JAECA' PG ' IA 9 'N" EI CGFE

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TOQ P "

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% CG "J IA =F IG" CE BA CG' G""AJ \ IAF AJ FE IAK IFJ BAA' G BG " 'N PG ' BK IA IGPAE IA"J G G IADY JAPA'JAJ M E G' IA R AA' GM #CG E F'J EACG'J"K G' IA DF ' A'F'CA G IA G A I G GM =AC " =G "J TF K # F IF A PF AJ I IA E G'E GM A'L NAF'CA F'J A G" G' F'J IF A FCCAP AJ IG'AE "K IA F F'NADA' E ' IA MF G I CI IFJ BAA' CG'CA AJ BA AA' -A CAE A !ADB GOA G MG"O >A AE F'J T L FK H CG "J G MG"O F IA EFDA DA IF A EAPF F AJ

N A A F 5> >A' I C AEDA J 'N"A A A PG "A ACG ADA' JA %G "GN'A EF'E G CIA ''bF' DG 'E 'K JAECA'J A F "C 'ADA' A'' EG'' ?GKF "DA' Q A JA DAEDA "U G L A' 'BG' Q A'"A' J C' J F MFCA G CA Q " PG F PG '"A ACG ADA' =:' C:C =: :<C : ' =:C H< C:C' C$ C L ; @' ?$D:' $;CC' =:CD: :' ' : <:(H< C:' =$ C @:=D ' <> $;@8: Y P/ a ' &H< @') * ' E>@' ' HH' MMT' MMO' ' ! <' / ' # @@:F<: ' >' 6:D @' / $ 8 \ B;<F9 ' + $ ' NT' 8k ' " 6' 0 '

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DA'' FE G MG"O E MA F'J FE F DADBA GM IA =I CI
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IF A AE G AJ F G'CA F NGGJ 'JA E F'J 'N BA AA''
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DFEE GM 9" UFBA I E E BHAC E "" IG A A JAPA'JAJ G''
IA NGGJ MF I GM IA P 'C PF" PF AE F'J GM I E IA
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CG'MA A'CA CFDA GHMM F 9J 'B NI I CI FE G IF A IAF"AJ F"" G 'JE F'J GPA'AJ IA FK MG TF "F'J E D EE G' G 9" UFBA I =IF A"IA F " X FE DG AJ G E CI APA' F'CA IF IA A(C"F DAJ ' AF E IA O'A 'G F IG K B IA R AA'E > ' "K F'J NK"A G "J FN AA G 'G I 'N/ F'J IA FEEADB"K B GOA P ' CG'M E G' $IA + OA GM " F DAF' I "A IFJ EE AJ G MG"O E P GC"FDF G' CGPK FE EA' G 9 'NL "F'J F'J 'FED CI FE " F CIF NAJ IA R AA' I IF 'N FC AJ FNF 'E IA FJ CA GM IA 'GB " K =AC " GMMA 'N F M "" M G' G IA JF'NA J A F' F'E A GM 'J N'F' JA' F" G I CI IA F''G 'CAJ IF IA G "J AQ A IA =G 'C " G F FCI IA E N'F AE DAA 'N FE CF""AJ MG IA P PGEA F I CI IA "AFJA E GM IA CG'EP FCo AM EAJ G BA P AEA' G MG"O FE DF'K DAE E DDG'AJ F'J 'JA" F"EG B IAK G "J 'G F A'J/ F'J IA R AA' F "FE CG'EA' AJ G JAE AJ IF IA J MM C " K EIG "J BA F AJ F'J IA P GC"FDF G' BA "AM IG AP"K

$FO 'N CG FNA M GD 9" UFBA I E IAE F G' G MG"O EA' G J G +G' 8 A F IF ' F MA JFKE F"" G "J BA G A =AC " G "J BA JAPGEAJ F'J IA E G"A' P GL PA K AE G AJ f

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MF IA IFJ JG'A G $IG 'FE = GD A"" $I AA DAE
IAK CFDA JG ' G IA =G 'C " ' A'J 'N G EA M GD
I =AC " F P EG'A / B I AA DAE FE +G' 8 A F
G A CG' ADP G E"K G ! I " P X IA CG FNA MF "AJ/
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" OA DA' GM G IA CG ' AE/ IAK A(C EAJ IADEA" AE
BK EFK 'N IF EG DF'K GM IA =G 'C " IFJ J PPAJ
IA IF'JE ' #PF' EI P" 'JA IF IAK CG "J' G
CG ' PG' E PPG / B ' MFC IAK A A PGG
EP AJ - OA 9'N" EIDA' IAK G "J IF A I 'NE
A"" JG'A B IAK G "J"AF A IA JG 'N GM IAD G
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$IAK A A ' JAB GG F"" GM IAD \ G MG"O 'L
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A' A P EA $IAK JAE AJ " F G E PP"K IAD BAMG A
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PFKDA' +G' 8 A F EF J IF IAK D E AF ' IA
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$ IAEA P GPGEF"E F"G ' A D NI ' ' G IF A BAA ' AMMAC F" $ IA D EE G ' G #PF ' ' ' G FK DA IA + OA GM G L MG"O E EIAE/ ' JAAJ FM A IA ACA ' MF A GM =G ' TG ' N ' K ' D NI ' ' G EAAD F" GNA IA EFMA % =AC " IFJ F ' G IA F N DA ' I CI IA + OA F PGG DAF ' C AF A C PP"AJ I ' JAB F ' J I ' N K MG DG ' AK FE ' ' ' G CG ' J G ' G AE E $ IA N AF CF EA GM IA +FC A AE F AE FE CGD ' N G ' BAMG A IA =G GM =IF ' CA K M G MG"O CG "J CF K I E PG ' IA G "J ' G G ' " K EAC A IA IA AEEAE MG I E EG ' E B IA

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FJD ' E F G' GM IA IG"A FE P GPA K J 'N IA
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F 'N I D M GD IA AE GM I E PF K $IA ' A'JAJ
A G" G' IFJ B G NI P M GD IA CG ' K -AG'F J
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+ OA GM G MG"O E CG A G E'AEE F'J IA + OA I DEA"M
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G' IAK IFJ BAA' ' AJ G 'AEE
G"A' J MMA A'CAE FDG'N IADEA" AE F 'G A CGDL
P"A A EAPF F G' GM IA =F IG" CE M GD G MG"O F'J
IA E EPA'E G' F IA EFDA DA GM DDAJ F A FC G'
A A IA 'ACAEEF K CG'EAQ A'CAa $IA + OA MA"" BFCO
PG' -A CAE A F'J !ADB GOA F'J IA DF FNA I
IA R AA' GM #CG E ' IA ! G AE F' ' A AE >A
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TAF' I "A 9" UFBA I N'G F' XFE KA IF IA P GL
HAC FE A AJ FE G'"K F'(G E G J IA O 'NJGD
F'J IA EA"M GM IA JF'NA G E P EG'A #IA J J 'G
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TF'K PFPA E ADF ' ' =AC " E IF'J 'J CF 'N BG I
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GM IAEA CG'J G'E EIA D NI BA FNF ' EG"A R AA' M
EIA G "J N A E MM C A' EAC AE MG IA M A
BAIF G #IA D E CG'EA' G IA DF ' A'F'CA GM IA
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GM #CG "F'J FE M AA M GD IA MG A N' H EJ C G' GM
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IA R AA' GM #CG E F' J FE ADPG A AJ BK IA X G
AEG" A I D ' F"" JG B E E G IA DF FNA X IA
IFJ P GCAAJAJ EG MF ' ' IF IA CG "J 'G I CG'L
EC A'CA A GOA IF IA IFJ JG'A/ B FE DPGEL
E B"A MG I D G NG MG F J "" T FK IFJ ADG AJ
IA E DB" 'NB"GCOE I CI A A F' DPAFCIDA' G
IA FPPF A' P GCAAJ 'NE X $IF D E BA JG'A M E
F' J F"" IA AE G "J IA' MG"" G G T FK E AFEA
F' J CGDMG X $IA ' G' GM IA E"F' J ' G'A O 'NJGD
' DAE CGD 'N F' J IA DF ' A'F'CA GM 8GJ E A

A" N G' \ IAEA A A IA GBHAC E G BA EAC AJ F' J IA A A A DF' K A' AD AE IG G "J DPA " M IAK CG "J #G N AF F P PGEA >A ACGDDA' JAJ T FK IA/ AMG A G ACF"" IA R AA' DDAJ F A"K F' J DFOA IFE A G IF A IA MG DF""K J G CAJ M GD IA 9F " GM %G I A""

! G T FK D NI IF A BAA' 'M" A' CAJ BK G L MG"O E F N DA' E IFJ IAK BAA' "AM G G O PG' I D F"G' A E IF J G EFK/ B G M AEI 'C L JA' E GCC AJ G CG' M D I E 'CA F ' K)' A FE IA CFP A GM @ A' CI !F E IG FE O J' FPPAJ ' +A' DF O B G NI M E G -A I F' J IA' G BA JAA' $IA A IA IFJ BAA' A(FD 'AJ BK % CIF' F' J 'N IA 'G IA ' A CPAJ G' > E JAPGE G' E IFJ A AJ IA ACG""AC G' GM IA DG A F GC G E MAF AE GM IA D JA GM +F '"AK >A DA' G' AJ C C DE F' CAE I CI G "J IF A FNN F F AJ IFJ FNN F F G' BAA' PGEE B"A IA IF AM "' AEE GM TF K # F E AFCIA K F' J DFJA IA IG NI GM IA A ' DG A J"K ' G"A FB"A $IA G IA FE F CGDD EE G' I CI TF K # F IFJ EE AJ MG IA M IA F' CA GM IA E GM J G CA #IA IFJ JAEC BAJ IA EA"M ' IA P AFDB"A FE R AA' GM #CG "F' J I F" IA E K"AE F' J "AE/ F' J I "A G IA 9 'N" EI =G 'C " EIA FE 'JA FO 'N G DF ' F ' IA ?AMG DAJ A" N G' I "A G MG"O FE ''GCA' "K 'N G T L FK GM IA FJ F' FNAE G BA A(PAC AJ M GD IA AE G FL G' X G IA EA CA GM 8GJ EIA IFJ IA DP JA' CA G E K"A IA =F IG" C CIB EIGP GM # ' J A E IA E P ADA "A GM IA =I CI GM #CG "F' J

TF K # F "FCOAJ IA EO " G E BJ A IA EA"M ' -* DGDA' E GM A"F G' F' J AF IA DGJAE A " FE DA G I G GM$ TF "F' J FE EA G E"K

CGDP GD EAJ BK ! F E/ IA FE EAA' G IF A IFJ I E
IF' J JAAPA IF' T FK O'A ' ' IA FNAJK GM
TOQ 7 O G @ A"J ' =G'M JA'CA ' ' I D F'J ' ' I E ECIAD 'N
IFJ BACGDA DPGEE B"A/ F'J I IA JF O'AEE F""
F G 'J I D F'J I E CI JF'NA G E " NI E F DAE
B AFO 'N M GD ' IA ?ANA' FE P GGM FNF 'E G L
MG"O E B"F'J EIDA' E F'J 9" UFBA I E CGDDF'JE >A
CG "J B MF"" F IA G E F'J FE BA A G MF""
'GB"K F I E PGE F'J ' ' I E J K G #CG "F'J IF' '
E F FE JA ' G C GGOAJ FKE F'J E " MK F"" IF IA
IFJ JG'A

>A CF""AJ FBG ' I D IA EDF"" NF""F' 'O'G GM DA' IG
FJ E GGJ BK IA ?AMG DF G' ' I G NI NGGJ F'J A " '
$IA 9F "E GM TF ' 8"A'CF ' ' F'J TG G' IA TFE A '
GM TG' GEA -G JE #ADP"A ? I A' 'F'J)" PIF' 'DA '
I D F ' !A I ' F ' IA A'J GM ` "K ' >A G "J 'G '
F""G ' TF K # F ' G P"AFJ IF ' IA IFJ PFCOAJ I E
CG' A' G' ' >A ' AJ > ' "K ' IG"A F'J TF L
"F'J F'J IAK IG NI ' ' P JA' ' G F A'J ' $A' '
AF "E ' M M AA' ' "G JE ' M A B EIGPE ' F'J CGDD EE G'A E
GM IA =GDDG'E M GD A A K G ' ' #CG "F'J CFDA F '
I E E DDG'E G CG'E JA ' 9" UFBA I"E JADF'JE ' $IAK
JAC JAJ I F P APG'JA F'CA GM G CAE BAMG A I CI IA
EAC A J EEA' A' E A A MG CAJ G BA E "A' ' IF F" IG NI '
M ' CG "J BA JG'A I ' EAC K G IADEA" AE F'J
G I D ' IAK A A AFJK G ACA A IA "F A R AA' '
FDG'N IAD FE F P F A PA EG' ' IAK CG'E JA AJ IA '
A ' G ' IA I G'A A IA ' F"G'A G ' ' CG'H 'C G' '
I ' IA ' EG' ' FE X EG P AH J CF" G IA E F A ' F'J EG JF'L
NA G E MG ' IA ' 'Q A 'N GM IA IG"A E"A ' IF ' IAK
G "J ' ' 'G EA CG'EA' ' G ' X $IA PA G' 'MG ' IA
J G CADA ' FE A "K AHAC AJ ' $IA AFJ 'N GM
TF K # F E CGDD EE G' ' FE ACA AJ I F' ' PL
GF ' I CI ' TF "F'J ' ' F ' ' A'JAF G AJ G F""FK/ F'J

X' ' FE JAC"F AJ' AFEG'' G' AFEG''MG ' IA'M A'MG ' IA'
R AA' E F IG K '

9" UFBA I' ACA AJ' IA' AEG" G'E GM IA'CG' A' G''
I' F'' F'NA ' ICI'EIA'J J' 'G 'CF A' G'CG'CAF"' $IA' '
FE F" FKE' IA''EIA' FE' F"F DAJ' MG ' IA G '' CGDL
MG 'EIA'EF ' '' TF K'# F 'F'' 'H AJ' #G A A N' 'F'J'
'' T FK'F'J EGBAJ A' ' F G ' $IA' 'FE F" FKE'EIA'
FE' 'FB"A' G' ADADBA ' IF ' IA' #CG E' A A' 'G'
E BHAC E' GM IA E' #IA' J ED EEAJ' IA' DAEEA'NA ' IG'
B G NI ' ' PB'' IA' EPG ' B JJ 'N' I D' NG' BFCO' F'J'
EFK' G' IA' ?ANA' ' IF 'IA'D E ' CG'E JA ' BA A ' GM I E'
P GCAAJ 'NE 'F'J'FE IA'DAF' ' G' IF A' IA'CG' ' F'CA'
GM IA ' MFKG ' IA' D E ' EF EMK' IA ' EPAAJ "K' '' EGDA'
DG A' E BE F' F'' DF''A ' X') IA EA ' EIA' G A'
G' T FK' IA EA"M ' XKG ' EIF"'' GCCFE G'' E ' IG '
F'K' M IA ' JA"FK ' G' P GCAAJ' GM G EA" AE' G' DFOA'
E CI' F' JA A D 'F G'' I' IA' R AA'' GM #CG E' FE' A'
EIF"'' M 'J' IG'G FB"A'F'J' DAA ' MG ' G EA" AE/' F'J' ''
EG' JG 'N' CG'E JA 'N' A PA CA A' BK'KG ' DF''A ' GM'
JAF" 'N'KG 'G'"K' AEPAC 'KG EA"M'F'J''G'G IA 'PF K ' A'
JG B ' IG ' KG ' "'' " OA' '' F'J' IA'' IG NI' KG '
EIF"'' FM A F JE' K A"J' G' DG A'CG'MG D K ' 'DFK'P G A'
GG' "F A'F'J''G ' ACG A FB"A'BK' APA' FPCA

&'?:&E =$ C' $? :<' $' <:H>< ' D$8 :' 9$ ' + ;<<$ ' $C'
H<:H$< F' >'<:D>E:<'2 ; 8 B$< > '$ =' >' $J:'?<:C9'C :HC'
>'D>:<D:' 9:'<:D;C$ ' '><=:<:<C' ,@ I$B: 9'?>@@> :=' ;H'
9:<'?<C ' 8 :CC$F:' B ' $' C:D> =' 9$ ' C9:' >;@=' > '
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8 :=$:' C$ C?$D >< ' $ C :<' >' 9:<' @$C ' @: :<' C9:'
&E>;@=' B:' >DD$C > :=' >' H<>D::=' ' C;D9' C><' 9>; '
9 8' $C' H:<D$C:' 9:' C9>;@=' ? =' >>' 8 ;D9' F C ' 9 8 '
$ =' 9:'?$;@ ' 9:<:>?' >' H<>D::=' > @ '?<> 8' 9 8C:@?'$ =

' /; C=> ' >' 6:D @' &;F;C ' ' ' ,@ I$B: @-' >' + ;<<$ '&;F C' K'
' \ '

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51<
&;F;C

'G'A G IA # IA EA' G JA E G -G J #C GPA M T FK
F ADP AJ F'K I 'N FNF 'E IA %G JA NA' "ADA' G
ACA A F'J P G AC IAD ' IA "A A EIA CF""AJ
TF K # F R AA' F'J IA -G JE IA E BHAC E
MA AAOE "F A 9" UFBA I MG 'J GCCFE G' G
CIF'NA IA G'A T FK IFJ IA' BACGDA FNF ' IA
EF G GM I E CG ' K F'J TF K # F F'J IA
%G JA A E IA A'AD AE GM IA F'J DF'O 'J F
IA D EMG 'A IF I "A EIA CG "J IAE F A 'JAL
M ' A"K IA' FC G' FE DDAJ F A"K 'ACAEEF K IA
XPA BF G'E GM IA D 'J FE 7'G.KE CF""AJ IAD
F G IA DAE E FKAJ IA ' G A(ADAE F'J EIA
F""G AJ E JJA' F"F DE F'J E JJA' P G GCF G'E G
ADP IA G IA DGE "" H JNAJ P AC P F'CK >A
G"A' DGGJE A A IFPP "K GM B AM J F G' >A
P AEA' A(C ADA' F GEA PF "K M GD F BA" AM IF IA
> N A'G E IFJ BAA' C EIAJ F `F 'FC PF "K M GD
IA F G' ' G I CI EIA *FE I G ' BK IAF 'N
N FJ F""K GM IA ECIADA MG IA G MG"O DF FNA
$IA JAM F' F JA IG A A I CI 8G" N'K FE E ""
FB"A G DF ' F ' AFEE AJ IA FBG IA JF'NA M GD
@ F'CA $IA AE A ' NA' "ADA' IA' IAK A A MG L
B JJA' G C EA F'K "G'NA ' 'JA IA > N A'G M"FN
PA G'AJ ' F BGJK MG "AF A G EA A ' @ F'CA 'JA
IA JD F" F'J -G J > ' 'NJG' FEOAJ PA D EE G'
G EA"" I E AE F A F'J HG ' IA > N A'G F DK I
DA' f $IA 'F G'F" A'D K FNF 'E @ F'CA FE
F F"" DAE B"G ' AFE "K ' G M"FDA F'J IF A A
D NI BA IA MAA" 'NE GM IA R AA' F'J IA 'GB"AE
IA 9 'N" EI =GDDG'E ' I E PA GJ GM N G 'N !

' 9" UFBA I' G T FK' N E '34' PAJ '" CA 'C F'h' "F' ?AK 'F'PF F' A 'JA '
\ ' E 'AE FJG' K' IFCA ' J AU' D " ' IGDB AE'
f 9" UFBA I' G' #C GPA' N E '3<' K' H ' F EA' CG' ' A"" "D F' A % '
' " (' ' 0 # ' ' '
f $' 9"' =G' JA' JA' > ' 'NJG' ' M J' M

F' ED JA' MAJ IADEA" AE IAF F'J EG " I IA E NN" 'N B G IA E X $IA F PF K -F TG IA ' FE MG CAJ G CG'MAEE X IFJ DG A" MA F'J A'A NK ' :1< N E IAD IF' IA GPPG'A' E " IG NI IA A D NI BA J MMA A'CAE FBG A" N G' ' 9 'N"F'J F"" PF AE ' AJ ' IA JAE A G ACG A =F"F E $IA =F IG" CE BA" A AJ IF M 9 'N"F'J F'J @ F'CA A A F F ! I " P G "J BA CGDPA""AJ G E OA ' PG'9" UFBA I E E JA $IA #PF' EI Q F A" G "J BA DFJA P F'J IA =F IG" C 7 'N G "J ACG A IA 'F F" 'M" A'CA GM F' FC A F""K H$ $$$ A A EA' G A G IA JD F" F'J -F TG IA BA" A AJ IF IFJ BAA' E PP" AJ BK IA $ AFE K 9" UFBA I IA' IA CGDP"F 'AJ AP" AJ IF M FE EG IA CGMMA E D E BA" OA IA JG E C EA MG 'G DG'AK FE D EE 'N M GD IAD >A J EL CG A AJ IF IFJ BAA' F EAJ BK E BEC P G' ' IA AE bD CG ' AE FDG'N IA G 'A E GM IA P F AA E IG IFJ N G ' CI PG' IA P ""FNA

E AFEK G EAA IG N AF D E IF A BAA' IA CG'M E G' IA' F ! G AE F' C EFJA FE BA 'N A'L CG FNAJ BK =F IG" CE F'J EAD =F IG" CE $IAEA DG A' A' E A A B AJJ AE ' IA DF ' E AFD GM A'JA'CK / B IA EP ' GM IA PAGP"A AE G AJ IA R AA' G IA EA"M PGEEAEE G' I "A G' IA G IA N AF E BHAC GM IA 'AFE 'AEE EIA FE 'G G "AF ' IF EIA CG "J IF A JG'A 'G I 'N DG A MF F" G IA EA"M IF' FC PG' IA I AF E G T FK

' IA M E J EN E F IA FPPF A' FBF'JG'DA' BK G MG"O IA DG A AF 'AE =F IG" CE IFJ F FCIAJ IADEA" AE G -AG'F J' +FCMAE F'J I E M A'JE $IA + OA E DF FNA I IA R AA' GM #CG E FE CG

' X +E'G' ' GP'P" E'JA'$i FC b'A ' G" '
J A' AP 'EA' Q A' "AE' F " AE % ' f - + ' ` "K'5A
' '5 ' ` 'A' ' ' P

9 - S ' ' ' >' >

CA AJ F P AEA' BK IA ! G AE F' EAC G' GM IA
' =G 'C P GD EAJ 'G I 'N G IA CF EA GM A" N G'
51< FE F IA " OA"K G BA FCCGDPF' AJ I F M DA
&;F;C AE FB" EIDA' GM IA 7AMG DF G' ' BG I CG ' AE
$G I E DGE ' PG F' CG'J G' IAK CG "J 'G BA
N'G F' IF IA R AA' GM #CG E IFJ CG'EA' AJ
$IAK J J IG KA O'G IG " NI "K E CI A'NFNADA' E
CG "J E PG' IA F'J IAK J E E AJ IA MAAB"A'AEE
F'J EA"M EI'AEE GM G MG"O E CIF FC A $G IAD IA AL
MG A IA A FPPAF AJ B G'A GFJ GPA' \ G F F "
IADEA" AE GM IA #PF' EI Q F A" BAMG A ' EIG "J
BA DFJA P I IA Q FE EF'C G' I CI IAK IFJ
ACA AJ M GD ! I " P F'J G EA ' 'GPA' ABA"" G' $IA
9F "E GM = DBA "F'J * AE DG A"F'J G I DBA "F'J
F'J -A CAE A -AG'F J +FC AE I DEA"M TG' FN A
- D"AK F'J DF'K G IA E ' DF AJ G+G' 8 A F IF
IAK A A P APF AJ G FOA F DE -G J +A BK IAK
A(PAC AJ G "J HG ' IAD -G J #I A EB K G "J
BA I IAD ' IAF F'J -G J $F"BG I E A"JAE EG'
FE ' IA CG'M JA'CA $IAK P GPGEAJ G F EA IA
IG"A G I BK F E JJA' E D " F'AG E DG ADA' EA
IA R AA' GM #CG E F " BA K P GC"F D' IA R AA' GM
9'N"F'J F'J A AE FB" EI IA =F IG" C A" N G' $IAK
G "J JAC JA FM A IA C G K IF G JG I 9" UFL
BA I F'J IA D ' E A E $IA DG A G B"AEGDA GM IA
% EIGPE IAK G "J EA'J G A G @"F'JA E MG " F G
BA J EPGEAJ GM ' IA 8 AF #Q F A F % EEA"E $IA
R AA' GM #CG E D NI DF K IGD EIA IA EA"M P"AFEAJ
G IGDEGA A IA 7 'N GM #PF ' D NI E NNAE
$G TF K # F IA EA"M E CI F' F" A 'F A FE
E DP"K JA" NI M " #IA IFJ 'A A P A A'JAJ G +G'
8 A F IF EIA "GGOAJ G' IA DF FNA I G MG"O

' $ 2 D: 'L ; :' =>C' m' <:C' >B CH>C' L ; :' ' ' ' ' ; @ ' '
@:C' 9$D: ' : 8 B$<$I>' @:C' H<: =:<X ' ' ' '
: E $<$ 'X' A@$ =:C' $@' 2 ; L ; :' =:' &@E$

I F'K I 'N B J E FE A > A FDB G' FEP AJ G F
#PF' EI P 'CA F IA "G AE F'J BA" A 'N IF IA
DBFEEFJG EIF AJ IA G ' JAE A EIA EA' IA % EIGP
GM ?GEE G I D G A(P"F ' F FK IA FCQ AECA'CA ' IA
P GPGE G'E GM IA =G 'C " FE MG CAJ PG' IA BK F
IF ' 'ACAEE K

$IA A(PA A'CA GM 9 'N" EI A G" G'E ' PFE CA'" AE D NI EAAD G H E MK IA CG'M JA'CA GM IA G IA ' AF "E ' CGF" G' "AEE PG A M " F'J IG IA FJJ G' GM A" N G E A' I E FED IFJ P"FCAJ >A' K GM -F'CFE A G' IA I G'A GM ? CIF J 9J F J IA' IA "F'JAJ F ?F A'EP N F'J 9" UFBA I EN F'JL MF IA BAMG A %GE G I M A"J IFJ MF ' A N G 'JE G F' C PF A E CCAEE IF' IA PF K IG FE 'G P AL PF 'N G E'F CI 9 'N"F'J G GM IA IF'JE GM A GL " G' F'J AE G A IA F'C A' G JA ' =I CI F'J # A +G' 8 A F IG A A DFN 'AJ IF MG EGDA 'O'G ' AFEG' IA 9 'N" EI IFJ N G ' MF ' A $ AF AJ IF' IA MG AMF IA E F'J IA BA" A AJ IF PG" CK D NI AMMAC DG A IF' MG CA >A FE CG'EC G E GM IA JF'L NA GM J E ' G' >A MA" IA A(ADA JAE FB"A'AEE GM B 'N 'N G MG"O F'J I E MF IA ' "F ' 'JA " FNF ' ' G CGF" G' I IA DG A JA A D 'AJ =F IG" CE F'J IA P GBFB"K O'A IF MG DF'K AFEG'E \ M GD HAF"G EK GM I E B G IA FE A"" FE F A E G' G IA "FJK IA EA"M ! I " P G "J 'A A CG'EA' G N A +G' `GI ' G TF K # F $IA 'CA F ' K IA IA 9" UFBA I G "J F""G G MG"O G IF A IA B G NI IA M CO"A + OA BFCO G +G' 8 A F >A A(P"F 'AJ G IA DBFEL EFJG IA P GHAC GM IA =G 'C " B IA NF A I D G

' ', 'D; >' >8B<:' 8 :' = 7=' :@ E$@:<C:' =:' C;' $;=$' ' D>B<$<' C;' >B CH>' L;:' :@@$' :C 8 ; ' 8H>< ; $=$' #: > Y ' ' . '&;\ =:@ DC8 : >' =:@ 2 ;L;:' =:' . ><\ F;C ' Y ' ' ' ?>@J ' 'D$C ' :D:CC $=$'X' 9$D:<@>' H><

. ; TOQ N E

'JA E F'J F"EG IF M IA DF FNA CG "J BA B G NI FBG IA G "J EA IF A A PG A IA GB F 'AJ BK ' 'G ' ' IA ' A AE E GM IA ?AMG DF G' ' FE IA IFJ P A A'JAJ G T FK B ' ' IA ' A AE E GM IA =F IG" C =I CI ' >A JAE AJ +G' ' 8 A F ' G CG'E " ' ! I " P F'J K G GB F ' ' I E FPP G F" ' 9 L JA' "K F"EG I +G' ' 8 A F E IA"P IA EIAJ G ACG A IA E PPG 'GM IA =F IG" CE IF M IA MF "AJ G GB F ' ' I E A'J ' 'G'A FK IA D NI MF" BFCO PG' IA G IA >A CF AJ 'JA" I I D F'J 'JA" F'J G MG"O BAE JAE IA MA JF" CGDDF'J GM IA A' A 9FE A ' =G ' AE A A IA 'F F" CI AME G IGD IA N AF 9 'N" EI MFD " AE EG I GM IA $ A' F" "GGOAJ MG '"AFJA EI P +G' ' 8 A F 'O'G 'N G L MG"O E ADPA BA" A AJ EA G E"K IF IA FE IA DGE JAE FB"A I EBF'J MG TF K # F I CI #PF' EI G =F IG" C ' A AE E CG "J JAE A >A ACGDDA'JAJ ! I " P G EF'C G' ' IA DF FNA >A "FBG AJ G ACG'C "A IA G IA ' "G JE G IA P GEPAC GM >A CGDDA'JAJ IA UAF" ' FJ EAJ IAD G IG"J IADL EA" AE ' ' AFJ 'AEE G EA M F' ' 'E AC G' ' EIG "J P G A 'ACAEEF K F'J A'CG FNAJ IAD I F.' B J AC P GD EAE GM FEE E F'CA M GD " F M IA R AA' ' CG "J BA EG MF B" 'JAJ FE G F" "G IA DF FNA G

' $'1 : C>'L ; :' :C 8 : >< L ; :' C:' 9F' D> ' E>@ ; $=' =:' ' + ' L ; :' >' C:' H>=<X CD< =:@@>' X 8 'H$<:CD:<' C >' F<$ '?< ; > Y ' ' ' ' & ; F ; C 'KP '

* 9 : ' D> C: :=' 9' F<:$ ' <:\ @ ; D $ D: ' * 9 :' % ; : : '>?' !D> C' C: ' >9 ' 3 : E : C> ' >' D> C ; @ ' 9 :' , $<@' B?' . >< 9 ; 8 B : <@$ =' ' >H : :=' 8 ' >H > ' 8 >' 9 8 ' 9 :' , $<@' C$ =' $? : < $H=C ' $' 9> ' 8 ; D9' ' $C' 8 C@ @D : =' > ' > @ ' 9' 8 :' 9 ; ' 9' C ; =< '> 9 :<C ' 9$ 'C9 :'C9> ; @='B : C > 9 :<C : @?' ' 8 $<< $F :' 9' 9 :' 2 ; J : ' ?><' 9$ ' 9 :' $C' D> ; :=' >' B :' $' 1<> :C $ ' $ =' ?' C9 :' :E :<'@>>J :=' >' <:D>E :<' 9 :<' :C $:' ' 8 ; C ' B :' B ' $=E$ D F' $ =' 8 $ $ F' 9 :' 6 $\ 9>@ D' ?$ 9 ' ?><' 9 :<:' > ; F9 ' >' B :' >' 9$@ F' ' 9>C:' 8 $:<C ' $ =' ?' 9 :' 2 ; J :' $C' $' C> ; =' 6$ 9>@ D ' ' > ; @=' B :' $C' F@$=' >?' 9$ ' 8 $ D9' $C' $ ' > 9 :< % ! ' ' ' = ' ' E ' + ' ; :' TPK ' ' "

FOA P"FCA IAK G "J GB F ' F"" IF IAK JAE AJ
IG BA 'N GB" NAJ G M NI MG E IA P G AJ '
GG F K G BA CF NI IAK CG "J MF"" BFCO PG' MG CA 51< N E
F IA "FE DGDA F' J I IA FJJAJ E A 'N I M GD
IA FJIAE G' GM IA + OA IAK CG "J DFOA IA E C
CAEE F CA F ' K

FE MG 'F A MG 9" UFBA I IF G I E CG'EP L
FCK IA MF " A GM IA >FDB NI A(PAJ G IFJ 'G
G BA FJJAJ >F"M F KAF E P GJ CA GM IA 9 'N" EI
"GGDE IFJ BAA' CG'E N'AJ G IF G'A FJ A' A
F'J XIFJ " F ' A CAP AJ IA M"AA G IFJ IA
DF OA P G AJ 'MF G FB"A IA AMMAC D NI IF A
BAA' FE EA G E FE +G' 8 A F F' C PF AJ >FPP "K
IG A A E CCAEE IFJ F AJ PG' IA F ADP BG I BK
"F'J F'J EAF G F EF " FE D EE 'N GM IA M" NI GM
I A 'NAJ FJA E I CI E AP I G NI IA G I
#AF G F BF"A GM NGGJE FE "AM 'EG"J EG DF'K
AFNA B KA E IFJ BAA' EA PG' IA F CI BK 7 "
"AN A $IA ' GM FJA F "AFE IA N AF C
UA'E GM -G'JG' EF ' 'G AFEG' G F' C PF A $IAK
D NI P ""FNA #PF ' I DP ' K F'J EA"" IA F AE
F F P GM AB"AJ F'J Q FJ P"AJ BK IA ' '
I CI " F IFJ ' G" AJ IA 'J E K GM IA 'IFPPK
A IA "F'JE

$IA PG" CF" JF'NA =AC " IG G NI"K CGDP AIA'JAJ
' E NA'A F" BAF 'NE/ IG NI 'F F A GM G MG"O E
AFCIA K IA 'JA E GGJ I E CIF FC A GG A"" 'G
G E EPAC I D $IA D E A E A A CF""AJ G ' ' IA
#G I AE A ' F'J T J"F'J =G ' AE F'J IA GMM CA E
A A CIGEA' M GD FDG'N IGEA IG A A BAE FMMAC AJ
G IA R AA' E G IA DF FNA IA NA' 'A ! G AEL
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G IAD - G J > 'EJG' GPPGEAJ NA' "K BK "A A E %AJMG J F' J %FCG' A A GM IA EFDA GP ' G' / I "A =" 'L G' F' J # @ F' C E 7 ' G""KE CF G' AJ G MG"O I DEA"M FNF 'E #PF' EI M A' JEI P +GC G #FDEG' IGD +G' 8 A F CF""AJ X IA DGE PA ' C G E IA A C ' 9 ' N"F' J FJJ AEEAJ IA + OA X FE M IA FE F' FPGE "A GM 8GJ F' J CGD DF' JAJ I D G I 'O' G DG A GM IA R AA' GM #CG E # EEA(G' IA G IA IF' J FE NG 'N I ! ADB GOA F' J - A CAE A $ IAK CG "J ' G KA A' A G EPAFO G 9" UFBA I GPA' "K FBG B IAK FPP GFC IAJ IA E BHAC G' DF' K E JAE ' J AC "K $ IAK IF PAJ ' CAEEF' "K PG' IA JF' NA GM OAAP 'N IA R AA' GM #CG E ' 9 ' N"F' J $ IAK G"J IA EIA D E A IA P IA G GM IA FK I CI IAK O' A EIA G "J ' G JG I G EA' J IA BFCO G #CG "F' J - A CAE A F' J G MG"O P"FKAJ ' G AFC I G IA E IF' JE G' A A"" 'N IA R AA' EIA FE ' E 'N F EA PA' F IA BGEGD \ IA G IA AP"K 'N IF E 'CA Ib EA PA' FE ' J EP FB"K IA G IA C G ' EIA CG "J BA A' JA AJ IF D"AEE G' "K BK BA 'N DF AJ G F' 9 ' N" EI DF' ' J EP FB"K IA G IA C G ' \ IF FE IA MFC M GD I CI 9" UFBA I CG "J ' G A (L CF A IA EA"M G "J IF A BAA' AFEK MG IA G IF A EF J F > FDP G' =G ' ' IA PFE ' A $ I E GDF' E F D JA AEE / IF A P GGM FNF 'E IA ' IA ' IA G ' IF' J/ "" MF"" BFCO G' DK MF IA E "" FPPAF G ! F " FDA' G IA"P DA/ EIA E 'M G A N' F' J EIF"" BA 'G E CCAEEG GM D 'A % EIA IFJ 'G EF J

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51< G CF K GMM IA R AA' GM #CG E M GD * 'NM A"J +FC AE
N E IFJ EAA' IA F' J F F 'NAJ IA JA F "E I IA G L
MG"O IG A A $ FE EG CG 'M JA' GM E CCAEE I G NI IA
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B GM T F "F' J E CGD 'N IA A FE 'G"G 'NA F P 7 EPAC
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CF""AJ F DAA 'N GM T F K # F E E PPG A E F %"F
IG"/ G' I E A ' G 9J 'B NI IA FE F AE AJ BK
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$IA G A GM =G 'C " DFJA M IA P GC FE 'F G'
DPGEE B"A 9" UFBA I FE NG 'N G' P GN AEE %AMG A
IA =G B GOA P F DAA 'N FE IA"J ' IA 9F " GM
!ADB GOA E GGDE F 8 AA' CI !F"FCA F' J G MG"O
P GPGEAJ IF IA IG"A PF K IG A A P AEA' EIG "J
F P G' IA ' ' F BGJK F' J DFOA O 'G ' IA E IAE
' F"O 'N G +G' 8 A F IA + OA FE X FE F " G' / F
IA P GEPAC GM MFC 'N I E D E AEE IA BACFDA X F IF A
F' J EIAJ G BA BFCOAJ P BK IA P AEA 'CA GM I E
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TOQ
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X G' A]' EIA FEOAJ FNF '/ XKG CGDA M GD -G' JG' F' J CF' A"" 'G' A E GM F DF FNA Y

>A FE FBG G I G I DEA"M PG' I E O' AAE F' J BAN ' IA' -FJK =" ' G' CFDA P I F BFEOA GM M"G A E $IA G IA ' 9F JE F' J+G' 8 A F F' J IA B"FCO CG' EP FCK BAI ' J IA ECA' AE CFDA BFCO PG' I D ' IA DGDA' GM A' MG CAJ AM"AC G' \ IÁ EI 'O F FK F' J FE E "A'

$IA DA FE PAC " F "K MF G FB"A 9" UFBA I FE E "" ' IA IAF GM IA A(FEPA F G' F IA P GCAAJ 'NE GM IA #CG E F ! A I F' J IA' M A A EIA D NI IF A BAA' ADP AJ G CG' EA' - A CAE A MA" ' F' J CFDA G IA AEC A GM I E M A' J E D J K X)' A DG ' 'N' FM A L F JE IA + OA CFDA 'F F AE ' G IA ! K =IFDL BA /F CI "J FE P"FK 'N G' F" A/ IA R AA' FE E 'N G' IA JGG E AP' I' -A CAE A F IA MAA P"AFJ 'N IA ' + OA E CF EA $IA R AA' FE IA G"J G MG"O FM A F JE FE G' IA PG ' GM K A"J 'N -A CAE A GEA F' J AP F FK #IA CF""AJ IA + OA ' G IA GGD F' J FNF ' F AJ MG I D G EPAFO % FNF ' IA CG "J 'G JG /F M A F MA DAF' 'N"AEE ADF OE IA IFE A' AJ G GM IA P AEA' CA F' J BANF' G I 'O FM A F"" IF IA G "J "A + FC AE CF K GMM IA R AA' GM #CG E

#IA FE FC A A' G NI G 'JA E F' J I E J MM C " K $IA A FE EGDA CF EA MG I E IAE F G' BAKG' J IF EIA G PA IFPE -A CAE A O' A F' J F J ' 'A FM A F JE X IA TFHAE K NF A I D F ' P B JJ 'N I D FOA IAAJ X G I E P ""G

VA ' EAADAJ F I E DGDA' IF IF A A EIA E EPAC AJ G IF A A GB G E GBHAC G' EIA EF G

IA DF FNA IA P AEE A G "J BA GG IAF K MG IA
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G M * 'CIAE A F'J !ADB GOA IG t FE F CI 'N IA
M" C F G'E GM IA I DG M GD JFK G JFK EA' G J
G' IA M J GM #AP ADBA G +G' 8 A F IF EIA
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$IA E F G' I IA I DG E PFEE G'E F'J
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B: : E := B$DJ B 9:< C;B :D C &@8>C $@@ 9:
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BA CIGEA' $IA A E F' DP AEE G' IG A A IF EIA E
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TOQ
!:H :8B:< + OA IF IA D E 'G I DEA"M I 'O GM > A IFE
BAA' MG EGDA JFKE F IA =G A(PAC 'N IA G
BAN ' IA E BHAC I I D B H EG MF EIA IFE EF J
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IF IA R AA' GM 9 'N"F' J DFK BA P G GOAJ BK IA
MF G EIG ' IA BK EG DF 'K GM IA E BHAC E G P GL
C A EGDA D ECI AM G IA PA EG' $IA + OA IA AL
MG A F' J IA CG 'MAJA F A 'GB"AE IF A JA A D 'AJ G
CF K IA GMM M GD IA P"FCA IA A EIA E CG 'M 'AJ F' J
IA 9F " GM G I DBA "F' J E G FOA CIF NA GM IA
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' #CG "F' J M IA 7ANA' "" 'G CG 'EA' G F' FN AAL
DA' "" IA F F 'NADA' E F A CGDP"A AJ B IA
R AA' GM #CG E ' A' JE G BA N JAJ ' A A K I 'N BK
IA 7 'N G DFE A F' J BK KG 9(CA"" A 'CK F' J
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IFE ACA AJ IA FPP GBF G' GM I E T FHAE K $I E
R AA' EA G KAE A JFK MG %FE 'NE GOA M EIA IFJ
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IA I 'N FBG IA R AA'" OA F NIGE E ""E "A' F'J
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'G IAF "F D 'N DG ADA' E F"DGE FDG ' 'N G
'E AC G'E A A APG AJ M GD IA + OA E J E C E
' G MG"O F'J # M"MB"O/ F'J F DAE ' IA DPF A'CA
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JG DFOA P IA Q F A"E I ! I " P F'J A'J IA
G B"AE EG

!"FJ EIA JG'A I E ! I " P FE AFJK F'F'K DGDA'
G FCCAP IA M A'JEI P G JA IA =F IG" CE ' G Q A
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X $IA " EIGP GM ?GEE IFE BAA' F EACG'J DA I DA
B 'N 'N F"A A M GD I E D E AEE A(P AEE 'N IA JAE A
G BA GM EA G I E TFHAE K F'J G IA =F IG" C?A" N G'
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F""G I^ DF FNA/ IA 'A(EIA ""E 'G IAF GM
-A CAE A E EF J G FOA IA + OA E PF IA + OA
N 'N I D IGPAE IF FM A IA A(PAC AJ CIF'NAE IA
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DF K IA R AA' -FE #F JFK IA R AA'' GM 9 'NL
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PIF CF""K IF IA DF FNA BA AA' IA + OA F'J IA
R AA'' GM #CG E EIG "J 'G BA #IA EF J IF M E>A CG'L
EA' AJ EIA G "J BA ' IA $G A BAMG A MG DG' IE
A A G A G MG"O IFE BAA' MG B JJA' G "AF A IA
=G F'J EIA DAF'E G EPAFO G I D % IG A A
NGAE FE IF A F" AFJK G"J KG 9(CA""A'CK F"E
F F'NAJ ' IN R AA'' GM #CG E MF G F'J M EIA E
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A(P AEE G'E' GM' J EP"AFE A 'B ' IA A' FE' 'G' F ADP 'F '
AEC A/' F'J' IA''' IA' $G A ' NF AE' C"GEAJ' BAI 'J' IA'
IAFJ' GM' IA' 9 'N" EI' 'GB " K ' 'G' PF K' '' IA' CG ' K'
MA" ' "AEE' P K' MG ' I D' IF''' IGEA' IGEA' M 'A "F J' ECIADAE'
IA' IFJ' P"FKAJ' I' F'J' 'AJ' BK' I E' CG F J CA
) '' IA' U' I' GM') C GBA ' +G'' 8 A F ' G A' G'
! I " P \
X' $IA' 9F "E' GM' G I DBA "F'J ' * AE DG A"F'J ') D '
BA "F'J ' F'J' +A BK \ IA' IG"A' =F IG" C' BGJK \ F A'
M G E' F ' IA' D J ' I CI' IA' + OA' IFE' EIG ' '
$IA' 9F '" GM' G I DBA "F'J E' EA F' ' IG' FE' IA A' F'
I "A' FNG' FBG ' I E' B E 'AEE' IFE' A 'AJ' G' DA ' F'J'
' IF A' "A A E' F"EG' '' C PIA ' M GD' IA' % EIGP' GM' 9GE '
$IA' E D' GM' IA ' DAEEFNA' G' DA' E' I E' IF ' IAK' "" '
FOA' MG C B"A' PGEEAEE G'' GM' IA' R AA'' GM' #CG E' $IAK'
"" IA''' DFOA' IADEA" AE' DFE A E' GM' IA' 'G IA ''
CG ' AE' A AE FB" EI' IA' =F IG" C' A" N G' ' F'J' AE G A'
G' KG ' TFHAE K' IF A A ' P UAE' FOA''' M G' ' KG '
TFHAE K E' E BHAC E' 'G ' '' IA' IF BG E' G'' IAEA' CGFE E'
$IAK' IGPA' IF ' IA''' IA' R AA'' GM' #CG E' E' M AA' IAK'
DFK' BA' E PP" AJ' I' F' MA ' IF Q AB EDA''' M GD' IA'
-G ' =G ' AE' M' IF A' AMA AJ' IA ' AQ AE ' G' IA'
+ OA' GM' " F '

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(' < ' + OA' GM' G MG"O' FE' ' OA' $G A /' !ADB GOA'
'JA"' $I GNDG G' ' F'J' - D"AK' A A' 'JA '
51< F AE'F ' * 'JEG / -A CAE A 'F") 'A' GM' IA' PF K'FBG '
D >B:< IA' =G ' IG' IFJ' BAA'' DP" CF AJ' '' IA' DF FNA'
' N A' IFJ' ''MG ' IF BG ' IA'' IA' EF ' IA' E G D'
CGD 'N'F'J' IFJ' AECFPAJ' DP EG'DA' ' % ' IA' AL
A"F G'' GM' EG' JF'NA G E'F ADPA ' EG' C"GEA' F ' IA 'G ''
JGG ' IG A A ' A "AJ' ' D NI ' BA' 'JA ' |P GMAEE G'E'
GM' M JA" K ' F'J' IA' E JJA'' B AFCI' I' IF"M' IA 'M E '
FJ EA E IG' MG ' A'' KAF E' IFJ' E GGJ' "GKF""K' F ' IA '
E JA' IFJ' EIGCOAJ' 9" UFBA I' 'A(P AEE B"K' $IA' CGDL
PGE 'N' "F'N FNA' GM' =AC '" MF "AJ' G' Q A ' IA ' #G'
M G E' FE' EIA' I' G MG"O ' IF ' '' IA' ' A F"E' GM'
IKE A CE ' EIA' EF J' IF ' X'"F ' G ' 'G' "F ' X'EIA' G "J'
IF A' I E' IAFJ ' #IA' FE' J E FC AJ' I' IA' EA'EA' GM'
J D' B ' MAF M '" PA "E' G A EIFJG 'N' IA ' I CI' EIA'
MA" ' G' BA' 'AF ' B ' CG "J' 'G ' N FEP/ F'J' MG ' A A ' IA'
M N A' GM' IA' P EG'A ' F ' $ B K' M"GF AJ' GD 'G E"K' ''
IA' F ' IF ' 'N' IA ' J AFDE' F'J' PA P"A('N' IA ' FO 'N'
IG NI E ' $IA' 'NA' K' I' I CI' EIA' IFJ' ADP AJ'
T FK' G' P GJ CA' IA' CFEOA ' IFJ' MF"AJ 'GM' E' P PGEA '
$IA' !AA E ' FE' A"" FE' IA' =G 'C " ' IFJ' EAA'' IA' JFD ' 'N'
P GGME' GM' TF K' # F E' N " /' 'G ' G'A' FDG'N' IAD'
IFJ' P A A'JAJ' G' BA" A A' IA ' ' 'GCA' /' KA ' EG' A B"A'
G' IA' D 'J' GM' 9 'N"F'J' FE' IA' DADG K' GM' VG O' F'J

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-F'CFE A IF G AECFPA F EACG'J F GM E CCAEE G' IAK A A AFJK G CG'JG'A IA C DAE GM IA EACG'J PA EG' ' IA AF"D/ F'J G'A GM IAD IA I NIAE E BHAC ' IA "F'J FE "" 'N G FOA IA D JA AEE G I E BAJ FE GG "F A 'G MG 9"UFBA I G I G IA EA"M PG' IA G "J E CG'EC A'CA P B"EI IA "A A E F'J JAC"F A IA F" 'MFDG E $IA !AA E IG MG A K EIFDA ' IA PFE ' A G "J IF A BAA' CGDPA""AJ G CG'EA' G "J 'G AM EA G EA IA IF'JE G IA 'CG'_HAD'F G' F'J F P GC"FDF G' 'E PPG AJ BK 'FDAE I CI G "J BA GPA' G 'G E EL P C G' G "J 'G"G'NA 'CF K CG' C G' G IA PAGP"A ' N E 'CIFMAJ BK IA JADF'JE GM IA =G GM @ F'CA F AJ F IA MA DA' F IA =G F'J F IA CG'EC G E'AEE IF 'IF"M IA P AEA' A(F G'E A A IA 'G ' G O I G NI IA AM EF" G DF K IA CIL J OA/ IF"M AN A 'N 'G IA' FE GG "F A IF EIA IFJ I G 'F FK F' GPPG ' K I C" G "J IF A PFC M AJ "AN DF A J ECG' A' EIA FE G' IA PG' GM DFO 'N F C D GM IA 9F " GM T FK + AFO 'N IA EG"AD' P GD EA F'J MG C 'N BFCO PG' I D IA EG A A N' IGD G'"K EIA IFJ 'J CAJ I D G FCC EA

#IA FE 'G M NI A'AJ ' G F ACG""AC G' GM IA GB" NF G'E #IA J ECG A AJ IF IA DF A I CI IFJ BAA' P GPGEAJ BK IA X FE A K ANI K IF T FK E F'E A 'IFJ BAA' I N AF JA" BA F G'CG'L CA AJ F'J CF AJ I D CI AFEG' % IA

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NF ' IA AMG A IA A FE F' F'(G E CG'E JA F G' GM IA E APE G BA FOA'/ F'J FNF ' IA P F A PFPA E GM =AC " A AF" IA DGE EAC A IG NI E GM IA =G) 'A EIG GFJ IA A FE $IA PFE A N'E FMMG JAJ DF'K P ACAJA' E MG IA AF DA' GM P A A'JA E G IA C G ' $IA R AA' X D NI JG IF I CI ' G IA DAE O 'NE P 'CAE IFJ JG'A BK H E CA\ FOA IA R AA' GM #CG E " MA M GD IA / G M I E FE GG EA A A F DAFE A EIA D NI OAAP IA ' 'E F P EG' "" IA IAF" I MF "AJ F'J EIA J AJ FE PGG =F IA 'A 8 AK IFJ J AJ % X IA TFHAE K IG IFJ EIG ' 'G

' 6><<:CH> =: D:'B: :: '!9<: C\ =:@ 6> =:' =:' !9<: CB;< ' >' C : =>'
B;< ' / ; F=> ' $ =' 6:D @' D ' $ ' :C <:D9$' 9$ 'F<$ =:' D> 8 >= =$='
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F=> ' =:'@$' F ; $<=$' =:'@$' =:' , CD>D $' ' . > :C' '6:D @C B$ =' D ' :TOQ'
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IA A ADF 'AJ IA AMG A I AA PGEE B " AE A IA
G OAAP IA '9'N"F'J FE IA ' "" 'N N AE GM -G J
#I A EB K P A A' AJ M GD AECFP 'N B I 'G
M IA AE C G'E PG' IA A'HGKDA' E F'J IA
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IA BFCO G #CG "F'J FE F P EG'A

$IA EACG'J CG "J 'G BA IG NI GM X FE '
@ F'CA IF EIA J J M E P A A'J F'J P B"EI IA
"A G IA = G ' GM 9'N"F'J EIA CG' ' AJ ' IA
EFDA D 'J F'J 'G P"FCA CG "J EA A IA BA A G P GL
EAC A E "" IA EFDA ' A' G'E
X ' 9'N"F'J '"AEE EIA FE AE C AJ M GD F"" CGDL
D ' CF G' EIA G "J BA IA MGC E GM PA PA F" CG'L
EP FCK X $IA ' DBA GM !FP E E ' =AC "E H JN I
DA' X FE CG'E F' "K 'C AFE 'N "F NA PF K '
IA # F A X !FP E E ! G AE F' E F'J A F"E A A
X 'C" 'AJ M GD G "J"K AEPAC E ' CG'EAQ A'CA GM IA
R AA' E AM EF" G DF K G MF G IA #CG EI "A
$IA CG'EP FCK ' IA =G 'C" IFJ F EA' M GD F
C F 'N X MG IA CA F ' K GM EGDA E CC E G' F'J MG
F ' G' GM IA E"F'J 'JA G'A EG A A N' 9 A K
PA EG' ' IA CG ' K IG FE J ECG' A' AJ XA IA
M GD DF A E GM A" N G' CG ' 'AN"AC G PG A K G
G IA CF EAE G "J hOA IA E JA GM IA R AA' GM #CG E
MG IA DA A IGPA GM EGDA CIF'NA >A P AEA'CA
' IA ?AF"D G "J BA F PA PA F" ADP F G' >A
PA EG' A(CAP FE F C"GEA P EG'A CG "J 'G BA AMMACL
A"K EAC AJ #IA D NI AECFPA EIA D NI BA CF AJ
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=G E G "J 'A A CAFEA G G K IA R AA' I AQ AE E MG IA A"AFEA #IA D NI CG' FC IA EA"M G EGDA ! 'CA IG I G "J JADF'J IA FE I E MA F'J F AM EF" G PF I IA D NI BA CG'E AJ ' G F' GCCFE G' GM F X%A 'N ' CFP K EIA G "J BA 'C AFE 'N"K CGDD EA F AJ/ X IA E MMA 'NE DG A "FDA' AJ IF' IA MF " CG'JAD'AJ X $IA CFE F" K GM IA JAF I BK CG EA GM 'F A G "J BA ' A P A AJ G IA G E $IA R AA' E G ' IAF" I X D NI BA G ' F FK I PA PA F" F'(A K F'J EIG "J EIA J A E JJA'"K I IA E CCAEE G' 'P GL JAJ MG IA CG'EAQ A'CAE CG "J IG MF " G BA DGE J AFJM "

$IA F N DA' E EG MF PG ' AJ G IA AP"FC 'N TF K # F ' ' IA CG'J G' M GD I CI EIA IFJ AECFPAJ ' IA M" NI M GD -GCI"A A' I I E J MMA L A'CA G'"K IF T FK F'J T FK E PF K G "J BA AQ AJ G N A IGE FNAE MG IA EAC K GM IA '" MA F'J MG IA EFMA OAAP 'N J 'N 9" UFBA I E P"AFE A

VA I E DAFE A GG FE 'G IG E GBHAC G'E M T FK J AJ G FE D JA AJ FE 'CA F ' IA IA I E PF K G "J BA E G'N A'G NI G IG"J IA h"BA D NI AECFPA FE EIA AECFPAJ BAMG A $IA =F IG" C !G A E G "J IF A FE DF'K DG AE FE A A MG ' A MA A'CA F'J EIA IA EA"M X G "J BA IA BG"JA G P FC EA BA 'N IA' ' P EG' BACF EA EIA G "J I 'O IA '" MA ' 'G JF'NA I G NI IA IGE FNAE ' 9 'N"F'J $IA A G "J BA IA EFDA PA " GM IA CG' FC 'N F DF FNA FB GFJ/ I "A EIG "J IA G ' M A'JE ' #CG "F'J NF ' IA PPA IF'J EIA G "J BA AE G AJ G IA NG A 'DA' / IA ! G AE F' A" N G' G "J BA E PP AEEAJ F'J IA G CG ' AE A"FPEA ' G IA

G"J IGE " K $IA N AF PG ' FE G IG"J IA MFE V
F'J I E CG "J BA JG'A DG A AFE "K '9'N"F'J IF' '
#CG "F'J $IA NG A 'DA' GM IA KG 'N 7 'N CG "J TOQ
IA'BA M D"K AE FB" EIAJ F'J EIG "J @ F'CA G #PF ' D >B:<
X F ADP F'K I 'N MG IA I "A EIA FE ' IA R AA'
GM 9'N"F'J E IF'JE X IA T FHAE K D NI H E "K M EIA
FE IA A G P G GOAJ DFOA F' A'J GM IA DF A BK
E 'N A(AD K G' IA PF

$IA AFEG' 'N G' BG I E JAE FE EG A A'"K BF"F'CAJ
IF A IA =AC "E D 'J F A AJ G A"EA I E G '
H JNDA' PG ' AJ G'A FK F'J 9" UFBA I E EIAE IA
G IA ' "FE IG A A F M IA E NNAE G' P AL
EA' AJ EA"M $IA GG GM 9" UFBA I E J MM C " AE IFJ
BAA' M E IA ' 'ACAEEF K ' A MA A'CA G P A A' IA
#CG E M GD K 'N IA R AA' MG IA D JA F'J

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$'C $:8 : ' 9$' ' 9:' $; ;8 '>?'
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!:$@'>?' , F@$ =' $C C: ' => '$ ='
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H@: :' 9:'D9$ F F'?::@ FC' 9:'H:<\
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>?' C>' 8 ;D9' 8$F ;=:' D>;@=' 9$E:'
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P"F AJ FE 'G DPGEE B"A/B ' ' IA
FBEA'CA GM G IA A JA'CF ' E DG A
"OA"K A IA IF' -A CAE A ' 'N
E (AA' KAF E FM A 'DFJA F D E FOA '
' IA JF A G IF/F' A G IFE C AP '
' I G NI F'EC BA E $IA G L
N 'F" GM IA "A A ' BA" A A' E 'G
"G'NA A(F'
f ' MG""G 'N=AC "E PFPA E IA A
E F" FKE N AF J MM C "K ' J E 'L
N EI 'N I E G ' GP ' G'E M GD IA
R AA' E' -A A A ' I E IF'J A A
GM A' A' BK I D' DA A"K FE
9" UFBA I E EAC A F K F'J' FNF 'E I E
G ' H JNDA' $IAK' A A' M AL
Q A' "K FCCGDPF' AJ BK P F A CGDL
D ' CF G'E M GD' I DEA"M ' I CI
IA JAP"G AJ AEG" G'E I CI IA
FE 'FB"A G P A A' ' IA P AL
EA' 'E F'CA IA A F A DF'K PFPA E
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EACG'J"K IA F' GM CG FNA '' P B"EI 'N IA AE " E GM IA ' AE NF G'' F' >FDP G'' =G # IA CG "J 'G "G'NA JG I E IA EA"M B IA P B" C J EN FCA G "J BA AQ F""K 'E AJ M IA #CG E A A' G F""G AJ G JG IF BAMG A IAK JAE AJ G JG M "F K # F FE AP"FCAJ '' IA IF'JE F'J FE B G NI P B" C"K G IA BFH '' IA G '' CG ' K IFE BAA'' F" AFJK DA' G'AJ IF # > =F AK IFJ BAA'' EA' JG '' G CG'E " IA ?ANA' $I E P"F'' E F "AFE " OA"K IF IA FE EAC A "K 'E C AJ G P GPGEA

TAF' I "A =AC " EA I DEA"M G J ECG A IA IA G MG"O E CG'J C IFJ M IA BAF 'NE IF'' FE KA IA O'A GM > E PGE G'' FE C CF" '' IA A(ADA > F"M IA =G 'C "\ IA ?AFC G'F AE =G'EA F AE TGJA F AE/ #AD =F IG" CE G BK IF A A '' FDA IAK DFK BA CF""AJ \ A A '' J EN FCA -A CAE A IA'' FE A A EA"AEE MG F'K IG'G FB"A P PGEA FE F JAFJ A NI PG'' I E IF'JE F'J IA FE "AM F"G'A I IGEA IG F"G'N I I DEA"M A A J AFJAJ FE IA FJ GCF AE GM AL G" G' \ IAI -G J 7AAPA IA 9F " GM %AJMG J # * F" A T "JDFK # @ F'C E 7 'G""KE F'J # ?F"PI #FJ"A $IAEA IF"M JGUA'' DA'' FDG'N IGD %AJMG J F"G'A PGEEAEEAJ P A A'E G'E G I NI B I IFJ G 'JA L FOA IA A(FD 'F G'' GM IA 'GB"ADA'' IG IFJ EG "F A"K EF F IA EFDA FB"A I IAD $IA M E ' A A E A A EF J G IF A BAA'' E MM C A' "K E G DK ! ADB GOA F G AJ I E JAE A MG IA G MG"O DF FE A F'J J J 'G EI 'O '' F'K FK M GD IA AEPG'E B " K

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GM' IF 'N'FJ EAJ' ' #G' MF ' FE' IA' -G JE' IFJ'FC AJ' GNA IA ' IAK' IFJ' JG'A' 'G I 'N' I CI' CG "J' IA' A DAJ' J E"GKF" K ' = GEE Q AE G' 'N' MF "AJ' G' J F ' TOQ F'K I 'N'M GD' IAD' I CI' 'C D 'F AJ' IA' R AA'' GM' #CG E ' F'J' !ADB GOA' BG I' I' E CCAEE' F'J' J N' K' JAMA'JAJ' IA' ' AN K' GM' I E' G '' ' A' G'E ' % ' IA' EF J ' IF ' IA' FE' CG' A' AJ' G' E BD ' G' IA' R AA' E' P"AFE A' F'J' ' FE' 'G ' =AC " E' PG" CK' G' P AEE' PG'' I D' G'A' BA A ' 'JA E GGJ' IF'' IA' IG ' G' B "J' F' B JNA' MG ' DA'' G' A AF ' G A ' G ' GM' F' MF"EA' PGE G'' $IA' % EIGP' GM' %GEE' JAC"F AJ' IF ' X IA' IFJ' 'A A ' JAF" ' I' F'K' G IA ' A(CAP ' E CI' FE' IFJ' C AJ ' I' IA' R AA'' =AC " ' IG' IFJ' 'G ' KA ' "AF 'AJ' IA' % EIGP E' PG A ' G~ "K 'N ' "A ' IA' F'E A ' PFEE' $G' A(L FC ' I' M GD' -AE" A' AQ AJ' EIF PA ' IF'J" 'N' IF'' G JE

=G'C " F G'' A(CAP ' I' IA' G' CI AM' GMMA'JA E' FE' IA' G JA ' GM' IA' JFK ' $ FCAE ' IG NI' 'J E 'C ' IFJ' BAA'' MG 'J' GM' IA' IF'J' GM' 9 JG"M ' >A' FE' CG'M 'AJ ' F IA ' FE' F' N AE ' IF'' FE' F' P EG'A ' ' IA' IG EA' GM' F"E 'NIFD ' F'J' FE' JAE AJ' G' P"FCA' '' 'N' FE' D CI' FE' IA' O'A ' GM' F' =F IG" C' CG'EP FCK ' % ' Ib' Q AE G'E' P ' G' I D' A A' 'E N' M CF'' F'J' AFE "K' A FJAJ' > E' IG EA' FE' EAF CIAJ' IG ' I E' O'G L "AJNA ' B ' IA' IFJ' CG'CAF"AJ' G ' JAE GKAJ' F""" ` E' DPG F'

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' 9>C:D> ?:<: D:C' B$ B$E:' B:: ' $ ' >?' 9:' %; :: ' >?' !D> C' 8 $<\ < $F:' ' C' > ' ; J > ' >' >; ' 8 ' 3><=' >?' 3: D:C :<' $ =- <' ! :D<: $< ' >' 9>C:' J > @:=F:' ' 9 C' B:9$@?' ' $HH:$@' 9' 9$ ' :$< :C :CC' ' 9$E:' $@ $ C' H<> :C :=' 9' 8 '@?6

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PFPA E/ F'J EG " "A E EP C G' IFJ IA R AA' GM IA P A GM IA PA EG' IF EIA IFJ ' IA IF'J IF IA' IA FE A"AFEAJ M GD F AE EIA CG'E " AJ I D FBG IA #PF' EI Q F A" F'J JAE AJ I E EAC A GP ' G' FE G IA BAE IAF'E GM FCCGDDGJF 'N IA J MMA A'CAE I ! I " P

NF 'E G MG"O IA R AA' FE E "" G"A' "K F'N K " IG NI EIA IFJ 'G P GGM IF IA IFJ DAJ F AJ AFEG' EIA MA" 'E 'C A"K IF EIA CG "J 'G E I D >A G A APAF AJ"K G IA 'E E 'N PG' I E "GKF" K F'J JX FO 'N 8GJ G 'AEE IA 'A A IG NI G JG F'K I 'N IF D NI BA J EFN AAFB"A G IA NGGJ P"AFE A B M 'A PI FEAE GM I E O 'J IFJ "GE IA PG A /=AC " E P"F' GM A'JA 'N I [F IF D"AEE BK P GL J 'N I D I F'G IA + CIAEE FE EA G E"K CG'L ADP"F AJ/ F'J FE ' DF AJ G I D IF F F"" A A' E IA G "J 'G '"AF A IA $G A "" IA IFJ'N A' F P GD EA ' 'N G I 'O 'G DG A GM IA R AA' GM #CG E

$IA + OA E M A'JE ' IA =G 'C " IFJ FBF'JG'AJ IA P GHAC E 'CA A"K $IA + OA I DEA"M IFJ 'G ' A' G' IF A A GM FBF'JG' 'N $IA N AF =F IG" C PF K FE E "" A' A $IA D 'A I CI IAK IFJ J N FE E "" "GFJAJ F'J IA IGPA GM MG A N' FEE E F'CA FE E G'N FE A A $IA + OA E "" A(PAC AJ IF IA G "J AFP IA M GM F"" I E F'J "AFE GM F"" G "J IA PF I I E IGPA GM TF K # F % IA JAE AJ G AL CG A I E" BA K - AE CGE G MG"O 'G I 'N >A FE AFJK G EFK IF A A G "J F'E A I E P PGEA >A MAF AJ G'"K IF M IA NF A IA R AA' IA P GD EA I CI EIA JADF'JAJ M GD I D TF K # F IA EA"M D NI FOA I D F I E G J 'G IA % EIPP GM ?GEE PA L IFPE ' F G' F I E FPGE FEK D NI A"" EAC A E

' 3: D:C :<' $ =' 6:D @' >' S $@C FB$ 8 ' D ' P ' D ' Q ' D ' NM Y /
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I CI' G "J' IA' JF'NA G E' G' I D' M' A AF"AJ' >A' J A ' P' IA AMG A' '' IA' DGE' CGDP"A A' MG D' IA' AQ AJ' A' 'C F G'/' IA' NF A' ADPIFE E' G' I E' P GMAEE G'E' BK' IA' DGE' A"FBG F A' FEEA A F G'E' GM' NGGJ' MF I/F'J' I "A' IA' EA' ' IA' G N 'F"' GM' I E' JGC DA'M' G' 9" UFBA I ' IA' MG F JAJ' F' CGPK' GM' ' G' IA' % EIGP' GM' ?GEE' JAE 'N' I D' G' A"" I E' D E AEE' IF' IA' IFJ' K A"JAJ' G'"K' '' G JA' G' AECFPA' M GD' IA' $G A ' F'J' IF' IA' IFJ' 'G' ' A' G'' GM' GBEA 'N' F'' A'NFNADA' ' I CI' IFJ' BAA'' A(G AJ' M GD' I D' BK' G"A'CA

=G "J' G MG"O' IF A' O'G '' IA' E P ADA' "" 'N'AEE' I' I CI' TF K' # F ' IFJ' BAA'' AFJK' G' I G ' I D' G A ' EIG "J' 'E ' IA ' CG' A' A'CA' G' JG' EG' IA' G "J' IF A' BAA'' "AEE' AFJK' G' " A' MG ' IA ' > E' "F A' DBAC "" K' IFJ' 'G ' F EAJ' I D' '' IA ' NGGJ' GP ' G'/B ' FE' IA' D NI ' E "" BA' EAM " ' EIA' M"F A AJ' I D' ' G' IA' CG' ' F'CA' GM' I E' MG""K/' F'J' BG I' IA' F'J' EIA' I "A' IAK' BAE ANAJ' 9" UFBA I' I' P G AE F G'E' GM' IA ' IG'AE KM' MAJ' '' EAC A ' PG'' E G'E' GM' CGD 'N' DPI' IA'' " F E' "AN G'E' G "J' "F'J' F ' >F CI' G ' '' #CG "F'J' F'J' A A K' =F IG" C' '' IA' E"F'J' G "J' EP 'N' ' G' IA' M A"J' G' HG '' IAD

% ' M' A IA ' IAEA' IGPAE' A A' G' BA' AF" UAJ' G ' IA ' P GMAEE G'E' E CCAEEM ""K' DF ' F 'AJ' ' FE' 'ACAEEF K' G' P A A' ' IA' G IA '' =G ' AE' ' M GD' A "GJ 'N' ' G

' $' :' F<:$ ' ?$;@ ' ' D>8 8 :=' $C' @ J:' >' @ :' 9:<:' 9 @:'<' @ E:=' ' S 9: ' 'C9>;@=' C: =' ' 8 'C;B8 C(' $ =' 9:<:?><:' '=:C<:=' 9 8' 9$' #:' 'C > ' >' 9:<' +$:C ' 9 J F' 9$ ' ' >;@=' >;@=' >' 8 C@ J:' 9:<:>?' $ =' 9$ ' >;@=' >' @> F' B:' J:H ' D@>C:' B; ' F>' 9:' >;@=' $@C>' < :' >' 9:' %;:: ' >?' $B<>$='?:$< F' 9$ ' ?' 'C9>;@=' D>8 :' !D> C' ' 9$ ' B:9$@?' 9$ ' ' = =' ' >?' >' 9:' @ C9>H C' :$<C' 9:' >;@=' '$' :D:CC '$ =' >' @@ F@ ' ' <;C \ <$F:' $DD;C:' 8 :' >?' 8 ' < FC Y >' F' ' ><@=@ ' H>@ D ' 9$E:' CH:=' H<:E: ' 9:' C$8 :' 'C: ' 9:' D>H ' >?' @ J:' $' 8 <:=' 9><C:Y 9:' ?;< 9 :<' 9:' ' >' 9 8 ' >' C:: ' B:?><:' 'C: ' ' >' H@; F> 9' 9:' ?;< 9:<' 9:' C' 8 <:= Y ' 9:<' +$:C ' C$ F' 9$ ' :D:CC ' ' ' ' ' ' ' ' ' ' =<>E:' 8 :' >' C F ? ' 9 C' >< :@C:' ' * H+' , 2' ' - $

9 - S ' ' ' 7 7

P ADF A ABA"" G'/ F'J I E D NI P G A "AEE AFEK
IF'' G MG"O EIAJ @G KAF E PFE \ M GD IA JFK GM
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) C GBA BAA'' '' CG AEPG'JA'CA I IA NA' "ADA'' GM VG OL
EI A F'J P I DBA "F'J $IA JAF I GM +F '"AK
IFJ CGG"AJ IA PFEE G'' MG IA B IA'' EIA CFDA
G 9'N"F'J EIA EGG'' X A'CIF' AJ'' IAD FNF '' X BK
IA M"A(B"A F'J E NF AJ A"GQ A'CA % AMG A # '
@ F'C E 7'G.KE C EIG IA "A bAE F =F "E"A IAK
IFJ "E A'AJ '' I 'J AJE G IA G '' F"A GM IA G'NE
F'J BAE JAE IA A" N G'' F'J PG" CF" P AJ "AC G'E MG
IA IAK IFJ BAA'' EA G'' M A I F CI F" G E A' I L
E FED MG IA "G A"K "FJK IG FE '' IA IF'JE GM IA
DFN C F'E

* IA'' EIA FE ADG AJ M GD =F "E"A G %G" G' IA
NF AE GM #C GPA E CFE "A A A E F""K I G ''GPA'' G IA
'A NIBG IGGJ F'J IA AFNA O' NI EA F' IFJ M AA
FCCAEE G IA P AEA'CA * IA'' F DAE EIA FE IG NI
"OA"K G F ADP F'' AECFPA F'J IA N F JE A A EA
PG'' IA F"A "GKF" K "OA "G A E "" MG 'J DAF'E
G PA'A F A IA CIF DAJ C C"A 9 A K I NI EP AJ
KG 'N NA' "ADF'' IGEA NA'A GE K FE E G'NA IF''
I E ' A"" NA'CA IFJ CG' AJ '' EGDA FK G CF CI F
N"F'CA M GD IA AKAE F'J G IAF EGDA EGM G JE M GD
IA "PE F'J M GD IF DGDA'' BACFDA IA E"F A BGJK
F'J EG "

=G'EP C G E FDG'N IAEA KG IE A A IA G G'E
GM IGD IA AFJA IFE IAF J FE IA ' A'J 'N FEEFEE 'E
GM IA 9F " GM T FK

$IA MF IA ? CIF J G G'' FE PFE D JJ"A " MA F
IA DA GM IA ! "N DFNA GM 8 FCA D FK BA FEL
E DAJ I CG'M JA'CA IF IA FE G'A GM IA I K
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X G AE '' =AC "E IF'J) C 1 \ $$ =F" N =

!GDM A G +G'CFE A BAI 'J IA BF' 'A GM IA @ A => $
* G 'JE GM =I E G ' ' I E G"J FNA IA FE E "" ' .
A G IA CF EA >A IFJ BAA' "AM " OA F N AF TOQ
DF'K G IA E 'DG"AE AJ ' IA P GMAEE G' F'J P FCL) C GBA
CA GM I E MF I/ F'J IA IFJ B AJ P A"A A' E G
EG'E F'J A NI JF NI A E F"" " OA I DEA"M JA G AJ
CI "J A' GM >G"K =I CI)'A GM IAEA =I E GMA
IFJ BAA' FDG'N IAM E G A' G"" I DEA"M F O' NI GM
TF K'# F > E A"N G' IFJ F NI I D G CGDB 'A
E B "A & I CG FNA/ F'J I G NI CF A"AEE'AEE G
AFCIA K G I E G ' FJJ AEE IA IFJ BAA' FJD AJ
' G -G J'#C GPA E N F J'F %G" G' =FE "A $IA A IA
FE F IF'J G FEE E I E "FJK E AECFPA EIG "J AECFPA
P G A PGEE B"A/ IA A IA FE FB"A G ACA A DAEEFNAE
G CF K IAD/ IA A G I G IA CFE A""F' GMM I E
N F J IA P A A'JAJ G M" I IA F A'JF' E F'J
CA F "AFE BK I E G ' CG'MAEE G' C"GEA"K FE IA
P EG'A FE F CIAJ IA CG' AJ G IG"J P F A
CGDD ' CF G'E I'IA >
$IA ECA'AE I CI IA JAEC BAE I G *' E JJA' F'J
J " NI PG' IA JA F"E GM TF K'# F E CG'M 'AL
DA' $IA GGDE GCC P AJ BK IA GPA'AJ G GM IA
N AF IF"" ' F' ACIFDBA F'J F' FPF DA' BAKG'J
A A N A' P G IA EA F' E >A G ' BAJ GGD
IA I J GM IA EA AE FE F IA MF IA A(AD K
P"F' IFJ BAA' MG DAJ G CF K IA GMM -FJK - 'NL
E G'A FE G FMMAC G BA ' "G A I'KG 'N G G' '
F'J IFJ P A A'JAJ G P GD EA I D F EAC A ' A A
' IA " NI G E JA IA DGF $IA R AA' 'E
G PA EG'F A IA "FJK F'J EIA F'J IA CF F" A A A
G M"K GNA IA FE' ACAEEF K IF G G' EIG "J
EAA TF K'# F G J AC IA IF EIA FE G JG >A
FE G' J K ' IA IF"" %K F P ACG'CA AJ F F'NA

DA' F PFNA ' IA F' A GGD GGO " BA AE I G'A
GM IA DF JE $IA A FE D CI EC AFD 'N A 'N
F'J CG'M E G' G G' EIAJ ' G OAAP IA PAFCA F'J
EIA" A AJ B K IA I BB B CG' AJ G PFEE I G NI
F'J G EFK IF IA JAE AJ $IA ECIADA " OA F I 'L
J AJ G IA E CFDP G 'G I 'N/ B FE G'A AB FE
F A""AJ G F EACG'J FE 'E F' "K EP ' 'G IA
DA TF K # F IFJ EGDA I 'N G EFK G G G'/ F'J
I E ECA'A\ EG J E 'C E IA P C A\ DFK BA G"J '
I E G ' G JE

X)'A JFK IA' IA R AA' GM #CG E ' ' A IFJ
BAA' E 'N F IA 'JG E JA O' 'N GM F G O F'J
FM A IA BGF J FE CG A AJ EIA GEA F'J A' G IA
M A E JA F'J DFO 'N IFE A G IF A IA G O M ' EIAJ
G "J 'G " "FK F FK B G OAJ GM IA DA EIA
FE F D 'N GM IA EA"M #IA "GGOAJ MG G'A GM IA
EA F' E I CI 'JAAJ A A F"" NG'A G MA CI P IA
DAF F'J EAA 'N 'G'A GM IA G ' MG"O IA A CF""AJ DA
G IG"J IA G O IG FE "GGO 'N F DK -G J #C PPA
F'J # @ FM C E 7 'G""KE P"FK 'N GM CIAEE A' '
I 'O 'N IFJ JAEA AJ 'G B"FDA F'J IF EIG "J
'G IF A BACGDA DA G IF A AM EAJ G JG DK
-FJK #C GPA E y'J 'N IA A F'J DF'K NA' "ADA' '
IA CIFDBA IF EF EIA EPFOA 'G G DA I 'O
@ F'C E EF G 'G IAF J IA' EIA CF""AJ GM DA
% IA' IA IFJ P"FKAJ I E DF A IA EAA 'N DA
E F'J 'N BK IA R AA' IG"J 'N GM IA G O CF""AJ
DK CFP F ' G I D F'J FEOAJ I D M F CIAJ ! A
F'E A AJ EGDA DAE $IA' IA NF A I D CGD DF'JDA' '
IF EIG "J F CI 'G DG A F'J EF J IA R AA'
G "J DFOA DA F MGG"

510 R &H< @ TP Y 5
f =G'MAEE G' GM =B E GMA G G' 0 a

>G M "" GM" MA E IA JAEC P G'] $IA CFE "A IF"" IA ' A JFK IA EA F' E B 'N 'N P IA J ' A IA NFDA F CIAEE F' J TF DG 'F I IA EGM AKAE F' J EOA 'E GM G E AJ B 'J 'N IA IF' JE F' J IAF GM IA CFP A O' NI $ G KAF E "F A IA PGG KG I FE H 'JA IA O' MA GM IA A(AC G'A F $KB ' 'J E CI FE G G'' FE A A F IG EF' J DG A IG I 'N FBG %G" G' * 'NM A"J $ B K IA A A TF K # F FE CG'M 'AJ "K 'N '' F MG F N" DPEA GM IA FE EIA PFEEAJ I ' 'N E G 'JAJ BK IA N F JE G F CI 'N F ' NI FDG'N IA GCOE F' J B EIAE MG IA "F A " NI GM IA FPA I CI M" COA AJ '' IA CIFDBA 'JG E

'J 'G F"" IAEA KG IE I G NI IA E DDA GM TOQ IFJ BAA'' MAJ I' IA IGPA IF IA JFK FE CGD 'N t IA'' A IA IA 'GB"ADA'' GM 9 'N"F' J ' AJ '' =G 'C " G "J MG CA IA R AA'' G EA IA CFP A M AA G IAK IADEA" AE IA N"G G E BF' J GM JA" A A E A A G B E IA F""E GM I E P EG'' F' J BAF IA F FK Z '' DPI $IA FJIAE G'' GM IA + OA GM G MG"O G IA PF K CG P"AJ I EGDA 'CA F ' K FDG'N IADL EA" AE IFJ DGJ M AJ IA G N 'F" P GN FDDA $IA + OA IF 'N F "F NA PF K FDG'N IA " G AE F' E IAK ' A' JAJ G EFK 'G I 'N FBG A" N G'' "" IAK IFJ EAJ IA IA"P F' J CG "J FMMG J G EIG IA CG"G E $IA P A A(MG IA E 'N FE G BA IA" BA FL G'' GM TF K # F IA AE FB" EIDA' GM IA E CCAEL E G'' '' IA MF G. F' J IA ADG F" GM A " CG 'C ""G E FBG IA R AA' f $I^ E N' F" MG ABA"" G'' FE G BA

) 'A GM TF K # F E PAC "F AE PG '"A + A % > ' ' 'z -' \ F ADF OFB"A G'A '' IGEA DAE \ )C O FE IF EIA EA"JGD A' G BAJ "" f =G'MAEE G'' GM IA 9F " GM G " G'A G G '' IA DG ' 'N DBA "F' J z ' f X =F 'M ' E ! G AE F' E EG'

7E

TOQ
) C GBA

IA IJ F F GM IA + OA GM G MG"O M GD IA =G
$I 9F "E GM * AE DG A"F'J F'J G I DBA "F'J F'J
-AG'F J +FC AE A A IA' G FOA IA MA"J I "A G L
MG"O 'JA" TG' FN A - D"AK F'J IA AE GM IA
=G'MAJA F AE I A A G F EA IMA 9FE F'J Ib #G I
=G'M JA' ' IA 'G ''E A'N I CG'M JA' ' IA EAAD 'N
'G' GM I AA Q F A E GM IA 'GB " K CG'M JA' ' IA
P G E G'E I CI IA #PF' EI DBFEEFJG IFJ DFJA ''
" F E 'FDA F'J I CI " F ' A'JAJ G GBEA A EG MF
FE IA D NI M 'J A(PAJ A' IAK BA"A AJ IF IAK
IFJ B G EIG IADEA" AE ' F DE MG F"" GPPGE L
G' G NG JG ' BAMG A IAD

$IA IG"A ECIADA IFJ BAA' I G ' ' G CG'M E G'
BK IA AEG" G' GM G MG"O -AG'F J +FC AE * AE L
DG A"F'J G"J G G' F'J F ' DBA GM NA' "ADA'
A A CG""AC AJ F -G J G I DBA "F'J E IG EA F
$GPC" M F 'N MG ''A E M GD -G'JG' $IA + OA ''
IA EIG /M GM CG FNA I CI A 'AJ G I D F 7A'
'NIF"" IFJ EA' G G I DBA "F'J G EFK X IF IA
G "J E F'J F'J FB JA IA A' A F'J'G NG P G IA
R AA' ' $IAK A A A(PAC 'N A A K DGDA' G IAF
IF IA 9FE A '=G ' AE IFJ EA'K IA'G'A D J' NI
IA A'J GM #AP ADBA IAK A A G EAJ G GM IA
E"AAP G BA G"J IF F DAEEA'NA IFJ CGDA FE F
EA F' GM G MG"O E >A G "J 'G CGDA G IA IG EA
B FE F 'N X F M" NI EIG M GD IA PF O F"" '
* AE DG A"F'J A' G G I D F'J CFDA BFCO P AL
EA' "K G EFK X IF IA + OA MG IA B G IA "K "G A
IAK BG A I D BANNAJ IAD 'G G E G IA G "J BA
' JF'NA GM "GE 'N I E IAFJ

$IA P APF F G'E MG IA E 'N A A EG CGDP"A A IF

=G'MAEE G' GM $IGDFE %EIGP =G'MAEE G' GM IA 9F "GM G I
TFK ' TP Y '3 1 ' IA F'J \ ' " '

IA A FE ECF CA"K F IGPA IF IA ' A' G'E CG "J 7E 8
BA CG'CAF"AJ +FC AE F'J G I DBA "F'J XEAA 'N
EDF "" IGPAE GM E CCAEE A A JAE G E G P 'GMM IA TOQ
DF A B DF'K'GM IA NA' "ADA'' BA 'N XIG F'J)C GBA
AF 'AE XC EAJ IA + OA'F'J IA '" COK CG''A(G''
I'I D F'J'CF A"AEE IA IA IA" AJ'G'J AJ' X AL
EG" AJ G'E ''G IE F'J 'N $IA-G JE A A'GB" NAJ
G'EAAD G'K A"J E G MG"O' BFJ 'AJ'CG F J IAK
A A 'G "G'NA AJ BK G IA CG'E JA F G'E IAK
CG "J 'G 'CIF'NA IA C K'H F'J IA'' * AE DG A"F'J
A'Q AJ IF X IA Q F A" FE G BAY IA A FE F
NA'A F" EIG XMG A" N G'

-G J * AE DG A"F'J DFJA FI GBHAC G'' C G E"K
CIF FC A E C'GM IA DAE

X$IGEA IA EF J' X IF 'EAAD G FOA IF 'Q F A" ''
G IA CG ' AE F A CG ' AJ FE ABA"E'F'J '' "" 'A A
B"G DK 'FDA I CI IFE BAA'' P AEA AJ I E "G'N

IG 'E F ' 'N X 'EC P"A GEA X IA IA BK
8GJ E"F IAK D NI FNA'BF "A FNF 'E F''F'G ' AJ
! 'CA ' " IA G'EIA FE "F M ""K A(CGDD ' CF AJ
BK IA >AFJ GM IA =I CI

$I AA P AE E A A P AEA' G IGD IA Q AE G''
FE AMA AJ)'A'F +GC G TG G'' BK IGD G
I DBA "F'J IFJ BAA'' ACG'C "AJ G KAF E BAMG A
EF J IF FE IA R AA'' IFJ AM EAJ G ACA A IA
!GPA E ' G'EIA FE A(CGDD ' CF AJ IA''F'J IA A
BK IA'G ''FC $IA G IA G IG NI J AC ABA"L
"G'' ''F M "'X ' " IA EA' A'CA IFJ BAA'' G JA "K
P B" EIAJ I '' IA AF"D

$IA 9F "E D NI IF A BAA'' PF JG'AJ MG 'G F'L
C PF 'N IA AFO'AEE GM G MG"O/ IAK A A 'L
A(C EFB"A '' 'G IF 'N J ECG A AJ BAMG AIF'J IA

=G'MAEE G'' GM IA 9F "GM G I DBA "F'J \
3+

. ; TOQ D >B:<

CG'J G'GM=F IG"C GP ' G'G'F PG ' EG F" $IA PF K B GOA P I I E 'A A"ADA' GM J E 'G' FDG'N IAD $IAK FN AAJ IF F "AFE MG IA P AL EA' IAK D E ADF 'Q A/F'J G I DBA "F'J EA' #) E F"J * "O 'EG' G IA #PF' EI DBFEEFJG G FECA F ' DG A CA F '"K IF IAK A b G "GGO MG M GD' @"F'JA E #G)C GBA PFEEAJ F FK B 'N 'N I ' 'MG 'F A"K F M AEI JAMAF GM IA > N A'G E F TG'CG G G A(C A I^=F IG"CE I "A F IA EFDA DA F' 'A(PAC AJ CGDD EE G' GM F' F"F D 'N O 'J CFDA G A M GD % EEA"E $IA #PF' EI DBFEEFJG IFJ BAA' A"AFEAJ M GD AE F ' F'J 9" UFBA I IFJ N A' I D P 'JA E F'J IF M EGDA PA EG' FE EA' G IA I PG A E J AC M GD IA 7 'N GM #PF ' EIA G "J AF MG IA AE G F G'GM IA DG'AK # CI F PA EG' FE 'G F' 'G 'CAJ G BA CGD 'N BAF 'N FE EIA JAE AJ F CGDD EE G' M GD ! I " P/ B IA D ' E A EA"AC AJ MG IA D EE G' FE IA FB"AE GMM CA _ ' IA + OA GM " F E F DK =IFP ' A"" TF Q E GM =IA G'F * IK F EG"J A IFJ BAA' CIGEA' MG F J P"GDF C ADBFEEK FE F' ' KE A K I CI D E"AJ F" OA IA =G F'J IA =F IG"CE ' AF" K IA + OA GM " F M 'J 'N F"F NA AEPG'E B " K I G ' PG' I D BK ! I " P F'J N'G F' IG MF IA CG "J JAPA'J PG' IA AP AE^' F G'E GM +G' 8 A F F'J I E M A'JE JAE AJ G IF A EGDA P GMAEE G'F GP ' G' G' IA A"FL A E A'N I GM IA R AA' F'J Ib =F IG"CE =IFP ' FE EA' G A G 'ANG F A \ EIG "J 'ANG F G' P G A PPEE B"A \ I F"" E 'CA K M F'K J E BF'CA B GOA G IA FE G F F " I DEA"M GM ' G GB F ' BA A A DE MG I E DFE A /B IA FE 'G ' A'JAJ G FOA H F FC A"K 'JA F'K C C DE F'CAE F'J FE DA A"K G EA

I E AKAE ' CFEA " A G DAFE AE EIG "J BA A A' F""K V
'ACAEEF K $IA IAF AJ DFN 'F G' GM IA =F IG" CE
IG A A EF ' I D IA IA F"J GM IA CGD 'N F DK GM TOQ
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IA M A I CI FE BAN ' ' 'N G EDG "JA EIG FNF '
' G F B"FUA $IA DP AEE G' FE CG'M DAJ BK IA
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F A'JAJ =IFP ' M GD @"F'JA E A A JA F 'AJ F
+G A F'J IA FE F""G AJ G FOA G' I I D 'G
DG A IF' M A F A'JF' E I "A G 'N G IA E E
PA'E G' GM IA DG A DGJA F A A"ADA' ' IA =G 'C "
F E AP FE FOA' I CI IG NI GM A' I AF A'AJ IFJ
BAA' I IA G JA"FKAJ BK IA 'M" A'CA GM !ADB GOA
F'J 'JA" $IA C GM . ' MG D K FE F "FE G
BA A'MG CAJ F'J A A K DFN E F A ' IA O 'NJGD FE
G BA AQ AJ G E BEC BA G F' GB" NF G' G DF 'L
F ' IA"F F'J I DEA"M G EA F' A(FDP"A GM GBAJ A'CA
BK F A'JF'CA F CI CI

  $IF IA IGPAE IA"J G BK +G'
8 A F G IA =F IG" CE A A 'G FE
KA G BA M "M ""AJ E PA MAC"K C"AF
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X G EA P AJA ' JABA F F JA""G
IFE F A F" M ' Q A A'A "F 'ANGC F
G' Q A EA FA EGB A AE C ' JA
"G F AE FJG Q A E E CAJA CGDG EA
P A A'JA PG D PF A 'G EA JAHF h
JA"A F' F FJA"F' A"F F' N F FD EL
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A' JG CG' AEF CG G'F PA G 'G EA
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  ! I " P FE H E IA' G B"AJ I
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IF 'N !" 'JA E G I E IF'JE F"EG
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BF' FEEDA' E $IA 9 'N" E I =F IG" CE
D NI ABA" M IAK P'AFEAJ M IAK
CG "J G A I G 9" UFBA I IG
FEE E F'CA M GD I DEA"M IA G "J BA
A K A"" EF EM AJ F'J M FN A P GL
D EAE IA"J G ' I E 'FDA A'CG L
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TOQ
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$IA ACC"AE FE CF" F F'NADA' E A A K "A A A '
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TOQ

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9>;C:C' $ =' C>8:'B: 7'!;CC:7'$ ='
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D>8:' >'$' 9:<'H$<C9'D9;<D9' ><'
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'*9:'9$E:'8$ 'B>>JC' 9$' :<:'
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$IA B EIGPE IG A A E A GM 9" UFBA I E CG 'L A'F'CA ' PA EAC 'N ! F'E CG "J 'G E G BA E PPG AJ M IAK DAJJ"AJ I IA G IA E JA/ F'J FE 'G "" IA P AEA' F"F D IF IA R AA' FE G EAJ G F CG' C G' IF EIA CG "J 'G "G'NA IF" EFMN"K BA AA' G GP ' G'E

' IA 'A NIBG IGGJ GM -G'JG' IA =GDD EE G' FE 'G "" ACA AJ MA DFN E F AE IA A F'J IA A IAE F AJ F IA BG'J M GD X EC P "GE K GM CG'L EC A'CA B F"" A A AFJK G N A EAC AE MG IA F""AN F'CA F'J G A'A IA GF IE G IA R AA' X FE IA '"F M " EG A A N'

$IA A(PA DA' FE MF DG A C CF" ' IA G IA ' =G ' AE IA A IA DA A DG GM IA ' A' G' FE EG D CI M AEI M A" G' IA M A $IA A ' IA ' 'F' L D K GM GPPGE G' IA PAGP"A A A 'CG'EC G E GM IA E A'N I GM ! G AE F' ED A"EA IA A F'J IAK JAEP EAJ FE A"" FE IF AJ

+GC G TG G' FM A IA B AFO 'N P GM IA FEEAD B"K F $GPC" M ! F A""AJ FP J"K FBG IA CG ' K G FECA F ' IA NA'A F" MAA" 'N G' IA J MM C " K I CI IFJ F EA' >A IFJ BAA' G P GMAEEAJ G IF A BAA'

>' C: ' (;H @ :' 8 $CC' F ' @ ' NN' 9>;<C' $< F' $C' ' 9:' > ' >?' '$ @:' $ =' ' 9:' H$< C9' >?' 3 =:(' ? :@=' 9:<:' 9: ' 9:' : ' E:< ' B@ =' $ =' C;H:<C > C

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$' ' 8 $ ' H@$D:C' 9: '' J::H' :' 9:<' D9$@D:C' @>>J F' >' 9$E:' 8 $CC' F ' 9:<:$C' 9: ' :<:' D>< 8 $ =:=' >' ;< ' 9:8' >' D>8 8 ; > ' D;HC' $? :<' >;<' ?$C9 > 'J::H F' :' : F9 ' ?><' : F9 ' !>8 :' H$< C9:C' ?: F

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' G IA PF E GM IA E"F'J FE A"" F'J G IF A "AF ' H IA ' A EF" EA' DA' E GM IA 9'N" EI 'F G') ' I E A ' G"J G G' F'J DF'K G IA E FNF ' AL PF AJ G IA 9F " GM G I DBA "F'J $IAK IFJ NG'A EG MF IAK EF J IF IAK CG "J 'G NG BFCO F'J IAK D E A IA EA G X M"K IA AF"D X GP"J BA F N AF J EC AJ G "AF A GMM EG NGJ"K F' A' A P EA/ F"" 9'N"F'J FE "GGO 'N G EAA IF IAK G "J JG F'J G "J FEE E IA' IA M E B"G FE E CO TG G' MG""G AJ G IA EFDA P PGEA E G IA A(CGDD ' CF G' IA EF J IAK G NI F IA G P A A' IF' F MG ' '" AEE IA NG A 'DA' FE CIF'NAJ IA !GPA G "J P GCAAJ I IA CA'E AE F'J IA' 'G 'G'"K IA EG "E G "J BA ' JF'NA B IA 'JAPA'JA'CA GM 9'N"F'J D NI BA "GE F"EG I >A DP"G AJ IAD G

. >< @8 8B:<@$ =C D> ?:CC > Y ' " ,

2 >D >< + >< > C$ = 9$ 9: 6 < C $ H< D:C 9<>;F9 9:1>H: C H:<C;$C > (>;@=C::J >C;BE:<';C ?'(:'= = >'C::J >'<:?><8' (9\ >;<C:@E:C $?? <8 F 9$ 9:9$= <$E:@@:= 9<>;F9 9:8>C H$< >?' F@$ = $ = = ? = 9:8>C H$< >?' 9:D>8 8 > H:>H@:'8;D9 D@ := 9:<: >' ?' C>9:' 9$ $ > :'(>;@= B:F >' $J:' 9:' : :<H< C:' 9$ = I E > ! I S 9' 9:@$;=$B@:' =:C <:'>?' C 8\ H@ ? F' 9:' C ; = >?' 9:' + ! ! 9:'#:D><=' ?? D:' 9:' J::H:<C' 9$E:' = E = :=' 9:8' >' F >;HC' $DD><= F' >' 9:' D>; < ' >' 9 D9' 9: $(:' C;HH>C:=' >'<:?:<' @@;C <$ > '>?' 9:' ; @ '>?' 9 C' $<<$ F:8: 9:' C ;= : '>?' 9:'9 C >< '>?' 9B' .>< 9:< 5:B:@@ > 8;C '@>>J'?<C' 9:'D>@\ @:D > D$@@:=' 9:' '><=:<' 1$H:<C' B:D$;C:' 9:' $D > @$ D9 :?@ '

0><JC9 <:' $ =' .>< 9;8B:<@$ =' S 9: 9:' 8>E:8: 'C;<F:C' $D<>CC' 9:' * ::=' 9:' <$D:C' 9:' '><\ =:<' 1$H:<C' $<:' @>C ' $ =' 9:' 8;C' ;< ' >' 9:' C:< :C' ?><' !D> @$ = * >' ? @@' >;'9 C' H D ;<:' 9:' 8;C' <:?:<' >' $' C:H$<$:' D>@@:D > ' C;HH>C:=' >' B:' =:E> :=' >' 9:' %;:: ' >?' !D> C' A><' 9:' >H > C' C>' C;H<:8:@ ' 8\ H>< $ ' >?' 9:' , F@C9' 8 C:(C' 9:' 8;C '@>>J' >' 9: <' D><<:CH> =: D:' ; =:<' 9:'9:$=' >?' <:@$ = '4:<8$ ' A<$ D:' >< $@ ' * 9:'D> ?:CC > C' >?' 9:' 8H>< $ ' H< C> :<C' $<:' ' 9:' ' 1$H:<C' B:D$;C:' 9: ' :<:' < :=' ' 3> => '$ =' 9:'$DD>; '>?' 9:' C$8:' CD: :C' F E: ' ?><' C $ D:' ?: ' A<$ D C' . >< > ' C' >' B:' ?>; =' ' 9:' A@$ =:<C' 1$H:<C' B:D$;C:' 9:' :CD$H:=' >' 9:' 2;J:'>?' &@E$ ' * 9:' F: :<$@'<:C;@'9$C' B:: '9 9:< >'9>H:\ @:CC' D> ?;C > ' ' 9:'D@$CC ? D$ > '9> \ :E:<' C' > ' >' C> 8:' :7 : '<:D ? :=' ' 9:' D$@: =$<C' >?' 9:' + $C :<' >?' 9:' 5>"C'

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IA "GEEDM I E E PPG * I G MG"O MG F' F""K IAK
CG "J IF A EA' G "K MG IA EA "ADA' GM IA E CCAEL
E G'/ IAK CG "J 'G G CI IA IAF E GM A A K =I EL
F' 9'N" EIDF' BK JAC"F 'N IADEA" AE IA JAMA'JA E
GM IA F'C A' MF I
$IA P AE E A"GQ A'CA FE 'G A' A"K E CCAEEM "
$IA ADPA GM IA EG I GM 9'N"F'J FE O'G ' G'"K
X PG' CG'HAC AE G I DBA "F'J G A G F G E
M A'JE B X FE F'E A AJ I E CI CG"J'AEE FE D E
"OAJ I D ' IA F D' MF E ' VG OEI A DA'
MG DAJ F'J NF IA AJ 'O'G E F'J N G PE F'J IA F
FE M " GM 'AFEK XA(PAC F G'E GM CIF'NA # "
'G I 'N FE JG'A -G J +A BK FDG'N G IA E FE
GD 'G E"K E"A' I CI FE G I DBA "F'J EF J
XN AF "K J ECG FNAJ I D $IA R AA' GM #IG E F'J
+G' 8 A F AQ F""K ACGDDA'JAJ Q A Y
TAF' I "A -G J # EEA(IG FE AE FB" EIAJ F
VG O FE ! AE JA' GM IA =G 'C " FE F'(G E"K F CIL
'N IA CG'J G' GM IA G IA ' J E C E E F
M A'J GM G MG"O # EEA(IFJ BAA' CG ' AJ PG' BK
IA =G'MAJA F AE FE " OA"K G BA MF G FB"A G IAD '
IA F" A AJ PGE G' IAK A A "AEE FB"A G A"" IF G
A(PAC M GD I D IA BAN ' ' 'N GM)C GBA IA 'L
AJ IA 9F "E GM G I DBA "F'J F'J * AE DG A"F'J
G VG O G N A I D IA BA'AM GM IA FJ CA * EIL
'N G MAA" I E ADPA IAK DDAJ F A"K CGDP" AJ/ F'J

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$B@ C9 8 : >? 9 :'C;DD:CC > ! D:' . >< 9;8B:<@$ =C D> ?WCC > Y
9 :' $HH<:9: C > >? 9 :' 2;J:' >? " 6
. ><?>@J 9 :' C: F ;H >? <:@F > _!;CC:7 > ! < 4 :><F:' : :C
8 :$ F 1$H C < C >;< H;<H>C: Y D Q 5P+
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G'' G F JE J E"GKF" K $IA G MG"O DF FNA FE
F"OAJ G A $IAK BG I FEE AJ I D X IF IAK G "J
'A A E F'J G F'K DF A E IF EIG "J BA G IA T FHAE K E
J EP"AFE A GFNF 'E IA E A K/ F'J # EEA('BA" A AJ
IAD F'J F""G AJ IAD G A '' G IA IG EAE ?AL
PG E AFCIAJ I D FM A F JE IF IAK IFJ FOA'' F DE
F'J IF F "AFE MG IA P AEA' 'G JF'NA FE G BA
FPP AIA'JAJ >A IFJ F 'F G AECFPA GM MF"" 'N F
C D G I E CG'M JA'CA EE AJ GM IA PGP "F MAA"L
'N G'' IA E JA Ib 9F "E BA" A AJ IF M IAK CG "J
EA UA VG O F'J DFOA IADEA" AE DFE A E GM IA "GCF"
NG A 'DA' -G J +A BK F'J IA G IA F A A E G "J
'G "G'NA IAE F A G HG '' IAD F E P GPGEAJ IF
G I DBA "F'J I F MA I 'J AJ IG EA EIG "J
DFOA F E JJA'' JF PG'' IA C K EGDA # 'JFK DG 'L
'N " A CG'CAF"ACH '' IA GGJE "" IA BA"" X "AM O'G"" '
'N MG EA DG' F'J IA'' JA '' E GP IA JGG E GM IA
CF IAJ F"' F'J FOA ! AE JA' F'J =G 'C " P EG'A E
$ AFEG' IG A A IFJ F A B"A EG 'J G F'' 9 'N" EI
'GB"ADF'' $IAK AM"AC AJ X IF IA I 'N D NI 'CF EA
B"GGJEIAJ F'J EG X PFEEAJ G A / F 'N "" C L
C DE F'CAE CFDA G IA FEE E F'CA F'J JAC JAJ IA
CG EA MG IAD

$IA ''FDAE A A GM A'' DA' G'AJ '' IA A(FD 'FL
G'E I CI MG""G AJ G'' G MG"O E F AE /' F'J CFDA
G IF IAK IFJ BAA'' '' CG AEPG'JA'CA I' +G''
8 A F $IA R AA'' AQ AJ IA P AEA'CA '' -G'

= . ((;' G "A R AA'')C :4 G I DBA "F'J E CG'MAEE G'
O", '

JG' F'J IG NI # EEA(JG B AJ IA P JA'CA GM EA'J
,'F MG IAD "" IA ' A FE M IA FJ F'CAJ
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EIG "J CGDA G IA IG JA"FK

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$IA 9F " GM * AE DG A"F'J &E$C IA IAFJ GM IA N AF
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IA "AFJA EI P GM -AG'F J +FC AE IG IFJ DF AJ
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$G CGDPGEA DF A E M PGEE B " A BAMG A ACA ' N M IA PGE A J AC G ' E IA ' EA ' I E EAC A F K G $GPC " MM G PA E FJA G I DBA " F ' J G NG G IA R AA ' F G ' CA G I DBA " F ' J F ' E A AJ IF IA IFJ

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A A G JAC JA IA IA IAK G "J M NI G M"K G E BD $IA A G JFKE FM A F F NA' A F" CG 'C " IA Q AE G' FE G' CA DG A J EC EEAJ $IAK A A F" "
'CA F '/ IA G G' E A A J JAJ FDG' N IADEA" AE G I DBA "F' J F' J # 'B ' A A 'C" ' 'N G DFOA MG @"F' JA E F' J IA A FE 'G AEG" G' F' K IA A $IAK IFJ F" "B B GOA' P F' J X JAPF AJ A A K DF' G P G JA MG I DEA"M IA' -FJK * AE DG A"F' J -G J # AK E JF NI A I A IA EA"M FDG' N IAD X AAP 'N cB A "K F' J C K 'N X IF IAK F' J IA CG ' K A A EIFDAJ MG A A F' J IF IAK G "J EAAO IG"AE G C AAP ' G $IA "FJK E CG FNA P EP ' G IA DA' $IA A FE E "" G'A DG A CIF' CA I "A IAK A A JABF 'N F P E F' CFDA M GD # EEA(' AQ 'N IA 9F "E MG IA "FE DA G A ' G IA F" "AN F' CA M IAK A A MF"EA"K FCC EAJ G IA R AA' # EEA(' EF J IF IA M A' JE G "J E F' J BK IAD M IAK IFJ E" PPAJ IA M A' JE G "J ' A CAJA MG IAD % '

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F A AEEA" FE AE G AJ F IA AE JGG / F 'J IA'
FD JE AF E ADB FCAE P FKA E F 'J IF 'OEN 'NE IA
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$IA M E E AP G 'CA A' AJ IA A FE 'G DG A
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GM AE E F'CA F'J ACGDDA'JAJ 9"UFBA "' G CGDA G A DE' M PGEE B"A' I' IA 'E NA'' "AFJA E' X M IA ABA"E P APF A G M N I ' IA G A' X IAK "" DFOA A"L N G'' IA ' N G 'J'/ F'J IF ' MG CA IAK DFK IF A ''
IF ' CF EA' F'J IG ' MF ' "K IA DGE ' PF ' GM IA CG ' K IFH/ NG I' DA "" M N I ' FNF 'E ' IF ' CF EA ' F'J IF ' AFEG'' DFK BA G N I ' FDG'NE ' D 'A G '' MG CA MG ' IF ' CF EA ' ' O'G ' 'G ' % ' "K ' F'J PG'' DK J K G KG ' T FHAE K ' ' IF A N AF ' CF EA G JG B ' D C I' GM A A K GM IAD ' F'J EG ' JG 'JAAJ ' VG ' T FHAE K D E ' CG'E JA ' IA IA ' 'EIF"" BA N AF A ' E A K MG ' KG ' G PF JG'' IAEA 9F "E IA ' PF ' FOA'' F'J IA ' GM MA'CAE HHFE ' G CF"" IAD G F A'J F ' KG ' =G ' IA A KG ' DFK BA E A M GD F'K P FC CA F'J I E ' A ' G P NA I E CG ' K F'J IA G IA ' PF E GM IA ?AF"D GM IA "" FM AC AJ'/ F'J EG G F G J IA JF'NA ' GM MG A N'' F J F'J DFOA F"" E A F ' IGDA'/ G ' A"EA G IFUF J BF "A FNF 'E ' JAEPA F A DA' ' I' EG"J A E IF ' M N I ' FNF 'E ' IA ' CG'EC A'CA

X M ' CGDA G IA M N I ' A IA ' 8GJ EIF"" N A KG ' IA C G K ' G ' M F'K DF'' "" E F'J I' DA KG ' EIF"" M 'J DK CF CFEA G'' IA'N G 'J ' IF A A ' IA AE ' GM DK CGDPF'K JG'/ MG ' BAE JAE DK J K G KG ' T FHAE K ' '

"" MG ' DK CG'EC A'CA EFOA EPA'J F"" DK " AE ' M ' IFJ F IG EF'J ' FNF 'E ' F"" IA G "J IF ' EIF"" J F ' E G J FNF 'E ' G ' A" N G''/ B ' 'M 'J F"" IA EAE ' ! G AE F' E FMMAC AJ IF ' KG ' EIG "J GMMA ' DA CK BAMG A KG ' K IA E G J '

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EG"J A E EIG "J IA EA' ' G VG O/ B ' IAK CG "J 'P BA
EPF AJ M GD IA 'PGE E $IA 9F " GM T FK IFJ P GL
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$IA 7A E F'J IA #CG E A A I E"AM 'J E BAJ F'J
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IFJ BAA'' "F J I G NIG IA E"F'J IA A A TF K
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8AG NA %G AE M" 'N I DEA"M ' G %FDCFE "A I
F MA ECG A EA F' E F'J MG""G A E -G J +F CK IA"J
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TAF' DA IA 9F "E IFJ D EEAJ IA CIF' CA F' J IFJ "GE IA NFDA ' D EE 'N TF K # F G' CA BAKG' J IA AFCI IA A FE 'G "G' NA F' K MAF M GD " F $IA #G IA ' 'GB"ADA' "A IA DA MG FC G' NG BK F' J IA ABA 9F "E FM A F 'N I AA JFKE FBG $FJ CFE A 'AJ BFCO PG' IA E APE $IAK IFJ A(L PAC AJ IF F" 9 'N"F' J G "J EA G DAA IAD $IA ' A EF F' Q "" K FE 'G J E BAJ $IA 9F " GM +A BK 'E AFJ GM E 'N MG F JAJ G 9" UFBA I IA "A A E I I CI IAK IFJ ADP AJ I E "GKF" K TG'L FN A F' J #G IFDP G' F AJ MG " F F' J " F G "J 'G DG A "" TF K # F FE M AA $IAK IFJ 'G DG'AK/ IA GFJ G -G' JG' FE GPA' B IAK A A ' "" 'N G F A IA PAGP"A BK MAAJ 'N IA DA' PG' P" 'JA / F' J A A' CG "J IAK AFCI -G' JG' IAK JG B AJ IA PG A G CF K BK F C$ (+* & F' J G BAE ANA G "J BA BAKG' J IA PG A - OA IA ! "N DE GM 8 FCA IAK IF" AJ ' IA M E E CCAEE F' J ' IF" 'N "GE F""

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?AK DA EA F B A" CGDPF[A G E " CA"GE K EGEPACIF F"N 'F/ KG DA AEC EbCG" JAC Q A 'G A' F DF'L JFD A' G JA E TFNAE FJ EGB A A""G +AC

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EG A' A' GKb JA A E " 9DPA A A" F G G K D .A Q A J F G AE b
PG " A" EG'C A A' Q A""A A" EK CF EG' JA "F DG 'J A DbCIF'CA b
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' '' A(P AEE G'' GM' ! I " P E' '' G'A' GM' I E' "A A E' G' +G'' 8 A F ' EIG E' IF ' IA' IG NI ' PF C "F ' CF A' FE' 'ACAEEF K' '' JAF" 'N I' 9 'N" E I' PAGP"A ' IA' FE' F '' GM' I E' OIG ' "AJNA' GM' w A' 'F G'F" CIF FC A ' F' J' N JAJ' I DEA"M' BK' CG 'E JA F G'' GM' E' PAC " F AE\ $' !G ' F' G' M A' B A'' 'G FB GE' GE' CG'' A'"GE' _"GE' =F G" CAE& ' ' F"F NF GE' H' P GDA A "AE' "G' Q A' GE' PAJ F' ' E '' AD "GE' F" + Q A/' K JA' "F' D EDF' DF 'A F' P GCAJA b E' A'' "G' Q A' DFE' GCA AEA' GCF' A' h' EADAHF' AE' DF A FE ' PG ' EA ' JA' Q F ' " JFJ' Q A' AQ A A'' F F EA' CG'' D CIG' D FD A' G' K' CG 'E JA FC ' ' K' DFKG DA' A' CG'' "GE' JAE F' 'FC '' Q A' JA' E ' 'F F" EG'' EGEPAC IGEGE' A'' GJG' ADPG' K' D CIG' DFE' A'' "F' GCFL E '' P AEA' A \ ! w I&& ' ' +AC' F1' '

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B:@ :E:= > B: :D:CC$< < :8$ C > 8: > > : 8><: D$;C: 9 D9 9$= D> <B; := > 9: ?$@;<: >? 9: 2:D:8B:< : :<H<C: !> 8$ H@$ C 9$= :<D<>CC:= 9$ > > H$< :C ; =:<C >>= :$D9 > 9:< *9:! H$ $<=C 9: A<: D9 9: 2;J: >? .><?>@J 9: %;:: >? !D> C 9: 6>; D@ 9$= $@@ B:: H@$ F 9 C:H$<$: CD9:8:C $ = 9: B:C >? 9: 6$ 9>@ DC 9> D$<:= C 8H@ ?>< 9:<:C ><$ > >? 9: ?$ 9 9$= C9<; J ?<>8 <CJ F 9: <D$;C: ;H> $ 8>E:8: 9 9: H;<H>C: >? 9 D9 9: :<: C> >BCD;<:@ $DL;$:= 3 D>@ \ C9<: 9 D9 9$= B:: 9: CD: : >? 9: ?<C 6$ 9>@ D C;<<:D > F C / : < 3 $C ?>; = B 3><= 6@ > : <:@ H 9: D 0: 3 D>@ C9<: 9$= > B:: D> E:< := > 9:5:?><8$ > $ = 9:B:9$E >;< >? 9:H:>H@: 9:<: C :7H@$:= B $ C F;@$< $==<:CC ?<>8 9: J F9 C $ = F: @:8: >? 9$ D>; > 19@H * C=:CD< B:= $C 9$E F B:: @$<F:@ C F := $8> F 9:8 $ = <:H<:C: C 9>; =>;B 9: ?::@ F >? $ E:< @$<F: H>< > >? 9: 6$ 9>@ D H$< , F@$ = *9: @>>J:= > 19@H 9:C: H:<C> C C$= $C 9: 1< D: 9> 9$= 9:D9 :?<F9 > 9: <D<> B: F $ > D: 9: 8>C 6$ 9>@ D 9 8C:@? $ = 9:8>C $B@: > =:?: = $ = 8$ $ 9:6$ 9>@ D<:@F > / :9$= B>< : 9: @: >? # F >? , F@$ = / C $8: $C > 9: , F@C9 C $; :(B>>J $ = > 9 8 9: > > @>>J:= $C 9:<@ :F: @><= $ = C>E:<: F *9: : <:$:= 9 C +$:C > > > C;CH:D ><@>>J C <$ F:@ ;H> 9 C :7\ H<:CC > >? 9: <?::@ F > $<=C 9 8 / C +$:C 8 F9 $@<:$= ; =:<C $ = 9: <<:$C> ?>< B; 9:

X=GDDA "A ! 'CA J DG'JA Q A' J GC'A'PA "F G J GC' A A y"F CG G''A J 'N"A A A' CGDDA"A P" E=F IG"Q A'A'"A P" E P EEF' ! 'CA Q "AE PAJ"' JbL MA'J A A EACG A'A'"F MGK=F IGL "Q A/ A'A'"CAE JA (AIJ GC E "E EA E BDA A' "A E AE A'B A'E y TFHX'A' G U AEPAC E A'CG'J L G'E' CGDDA PF' A' y #AN'A E A' GB"AEEA Q A' V TFH PG "A ! 'CA A' #G A F N'

C:<E D:‘ >?‘ 4>=‘ $ =‘ 9:‘ 6>8 8> :$@ 9‘ 9: ‘ >;@=‘ ; *
B< :?@ ‘ :7H@$ ‘ 9: 8C:@E:C

‘ 0>;<‘ +$:C ‘ 9: ‘ C$ =‘ ‘J > C‘ :@@‘ 9:‘ 8$ ‘ TOQ
2:D: 8B:
< F9 C‘$ =‘ @:C‘ 9 D9‘ $<:‘ H<: : =:=‘ >‘ 9:‘D<> ‘ >?‘
9 C‘ D>; < ‘ $ =‘ ‘ 9$‘ H:<@ :‘ $@@‘ @ E:‘ B ‘ <:$C> ‘
>?‘ 9:8‘ *9:‘ C;DD:CC > ‘ C‘ D@$ 8:=‘ B ‘ 9:‘ ,$<@C‘ >?‘
/; F=> ‘$ =‘ /:< ?><=‘$ =‘> 9:< > >< >;C‘$ =‘$8\
B >;C‘9:<: DC‘ 9‘9> ‘@ @:‘F<>; =‘: 9:<‘>?‘ ;C D:‘
>< C <: F 9‘ $HH:$< F‘ 8$?:C @ ‘ ?<>8‘ 9:‘ L;$<<:@C‘
$8> F‘ 9:8C:@E:C‘ 0>;<‘+$:C ‘J > C‘$@C>‘ 9:‘< F9 ‘
9 D9‘ C‘ H<: : =:=‘ B ‘ 9:‘ %;:: ‘ >?‘ !D> C‘ $ =‘ 9:‘
8$ ‘H:<C> C‘$8> F‘ ;C‘ 9>‘C;HH><‘ 9:<‘ D@$ 8‘ S:‘
$DJ > @:=F:‘B> 9‘9:<‘< F9 C‘ $ =‘9:<‘=:C:< C‘$C‘$‘ 8>C‘
E < ;>;C‘ $ =‘ 6$ 9>@ D‘ 1< D:CC‘$ =‘ :‘ $<:‘ <:$= ‘ >‘
$DD:H‘ 9:<‘$C‘>;<‘!>E:<: F ‘ ?‘ >;<‘+$:C ‘ @@‘H@$D:‘
9:<‘> ‘ 9:‘ 9<> :‘ 9‘=;:‘C:D;< :C‘ ?><‘ 9:‘6$ 9>@ D‘
<:@ F > ‘$ =‘?><‘ 9:‘8$: $ D:‘>?‘ 9:‘$ D : ‘$@@ $ D:‘
B: :: ‘ 9:‘ 9>;C:C‘ >?‘ ';<F; = ‘$ =‘ , F@$?=‘ ';‘
:‘$<:‘>?‘ >H > ‘ 9$‘ ?‘ 9:‘ %;:: ‘>?‘ !D> C‘ B:‘C: ‘;H‘
B ‘>;<C:@E:C‘> @ ‘ ‘ 9 C‘ C@$ =‘9:<‘+$:C ‘ 8$ ‘8$<< ‘
C>8:‘9:<: D‘: 9:<‘B ‘D>8H;@C > ‘><‘:@C:‘?><‘@>E: ‘ $ =‘
B ‘ 9 C‘ 8:$ C‘>;<‘D>; < ‘B: F‘ ?:D :=‘$C‘ ‘ C‘ C9:‘
8$ ‘B:D>8:‘9:<‘9;CB$ =C‘ 9<$@@‘ $ =‘ :‘$ =‘ , F@$ =‘
B:‘ 9;C‘<; :=‘?><‘:E:<‘ *9$‘ 9:<:‘ C‘B; ‘ >>‘ 8;D9‘
@J:@ 9>>=‘ >?‘ 9 C‘ >;<‘+$:C ‘ 8$ ‘H:<D:E:‘?<>8‘
9:‘H;<H>C:‘>?‘8$<< $F:‘B: :: ‘9:<‘$ =‘9:‘2;J:‘>?‘
.><?>@J‘ 9@:‘ ‘ $‘B:‘$@C>‘ 9$‘C9:‘ @@‘H<:?:<9:<
>@=‘?<: =C‘ ‘A<$ D:‘$ =‘!D>@$ =‘ >‘ 9:‘H<: ;=D:‘
$ =‘: <:‘=:C<;D > ‘>?‘9:‘D> :7> ‘ 9‘9:‘/>;C:‘
>?‘ ';<F; = ‘ 9 D9‘ 9 F‘ :‘ $<:‘=: :<8 :=‘$‘$@@
D>C C‘ >‘ >‘: =;<:

*9:‘1< D: :<C> ‘ C‘ ‘ 9:‘9$ =C‘>?‘9:<: DC‘$ =‘C‘
:=;D$:=‘ ‘ 9:‘9:<: D‘B:@:?‘ S:‘?:< 9‘9:‘D$ >

V @

TOQ
2:D:8B:<

BA A(CF AJ M GD FDG'N IAD EF A G' CG'J G'E
I CI "" BA JF'NA G E G IA =F IG"C A"N G''F'J
JF'NA G E G IA 9'N"EI =GDDG' AF"I * AFJD
IA NI GM IA R AA''GM #CG E BACF EA EIA E F=FL
IG"C FI J FE"G'N FE EIA E AE IAEA 'CG' A' A'CAE
DFK EAAD IA"AEE G BA MAF AJ/ B EIG "J IA R AA''
GM #CG E JA F 'G J E F'' DA IA CFEA E F"A AJ
$IA ! 'CA IA EG'' "" 'A A BA FCCAP AJ BK IA
=F IG"CE '"AEE KG T FHAE K FOA I D 'JA KG
P G AC G''F'J '"AEE IA BACGDAE I DEA"MF=F IG"C
X$IA A F A G IA DF A E F"EG CG' ' AJ IA 'L
O'G '' PA EG'' BK IGD IA FJJ AEE FE EA'' XG''
I CI '' E ''ACAEEF K'G G AF K KG T FHAE K
VG "" EAA IG F JA'"K IAEA NA'"ADA'' JA G A
IADEA" AE G KG.' > NI'AEE '' 8GJ E EA CA FE
IA G'"K ! 'CA F'J ! G AC G * A JAE A F'J F""
=F IG"CE MG IA G '' EFMA K G NI G JAE A G EAA
IA FJD 'E F G''GM IA CG ' K '' KG T FHAE K E
IF'JE $IA CG ' K I CI IAEA NA'"ADA'' 'IFB \
IA ''FDAE MA '' IA"E I CI A F FCI \ E CF""AJ
- 'CG"'EI A $IA PGE G'' GM BK"F'J F'J EAF E
CG' A' A' FE KG T FHAE K "" PA CA A MG F'K A'L
A P EA I CI KG DFK I 'O P GPA G J AC FNF 'E
IA P AEA'' R AA'' #IG "J KG T FHAE K BA ' "" 'N
Q 'JA FOA F'K I 'N '' IA P AEA'' R AA' E'"MA DA
KA '' IA A A' 'GM IA JAF I 'G 'GM F'K G IA MF G FB"A
CG' 'NA'CK A CF'' PG '' G G KG T FHAE K BK IF
DAF'E E CCAEE DFK BA FEE AJ A A'' BAMG A KG P
KG IF'J G IA G O * A P FK 8GJ DFK P"AFEA
KG T FHAE K G EA IA EA CAE GM F"" F'J AFCI GM E
FCCG J 'N G KG NGGJ "" F'J PG A G GB F'' F'

' *9:'$==<:CC C'DD>8H$:='B ' $@C>'B;'H<>?:CC F >'B:'> :'>?' 9:'
$'@C'>?' $8:C 9D9'9$C >'B::' F: @:8:'B ' 9>8' ' $C'H<:C: :=('
H<:C:<E:='$ ='B '$'@: :<' ; CF := '3C' >'H<:C:<E:=

A'J EG A(CA""A' ' EA"M EG DPG F' G IA EA CA ; *
GM 8GJ F'J IA CGDDG' AF" GM =I E A'JGD

@ GD I E JGC DA' E A JA' IF J E E GM TF K TOQ
2:D:89
J E E GM G MG"O F'J IA PGE G' GM IA" "A `FDAE
A A PF F"KU 'N IA A'A N AE GM IA =F IG" CE . '"AEE
#PF ' FE GPA'"K F IA IAFJ IAK G "J' G DG A F'J
IA CG""FPEA GM IA 'E AC G' AQ AE 'G M IA A(L
P"F'F G' J J' G DP"K IF IA =F IG" CE NA'A F""K
A A"GKF" G 9" UFBA I B G'"K IF F IA C E E GM
IA F" IAK A A ED A' I CG'M E G' $IA
MF I FE 'G"G'NA F M A F I A IAF ' I CI IA
' E G "J M EA GNA IA ' G F CGDPFC F'J IF DGL
'G E IG"A B F CG"J GP ' G' I CI "AM A A K DF'
G FC MG I DEA"M E BHAC G F"" JAM"AC G'E MG I E
EPAC F" A'JE MF'C AE F'J ADP F G'E

$G A ' G IA %G JA

$IA 9F "E IF 'N AECFPAJ ' G #CG "F'J IA 9ANA'
IFJ 'G G DAA IA Q AE G' IF FE J BA JG'A
I IADY $IA ABA"" G' FE PF 'GM HHA NA'A F" J EL
BF'CA I CI FE FN F 'N BG I IA AF"DE IFJ
BAA' P"G AJ BK IA % EIGP GM %GEE/ F'J IA R AA' GM
#CG E FE IA CA' A GM ' T FK E G JE X IFJ
B F'CIAE 'O'G ' A(A'J 'N G IA MF IAE DF CIAE
GM BG I IA AF"DE >FJ 9" UFBA I MF""A' T FK
G "J IF A NG'A G IA ECFM"MG"J/ F'J" "A AFEG' FE IA
IFJ MG MAA" 'N I DEA"M 'JA GB" NF G'E G IA B E G
' A AE FE FE JAAP"K CG'CA 'AJ FE IA E 'A('N EIL
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9" UFBA I G "J 'G 'JG B AJ"K AQ A I D G

 &==<:CC 9: $8:C >? 9: 9: C;<<:D > 'C D: 9: @: :<
F9 C $ =4: @:8: '>?3 D>@ \ 9:<: C $ H$<$F<$H9 > 9: C:<E D:C
C9 <: >19 @ H Y > B: :7H:D := ?<>< 9: ,$<@C >?
*9:<: C > =$: ;H> 9: + ! S:C 8><:@$ =$ =. >< 9;8B:<@$ =
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$ =E<$C C: H<>B$B@ ;C 1B:?><:

3

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TOQ
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F AE IA 9F "E F'J C C DE F'CAJ FE IA FE IA G "J M 'J 'G AFEK DF A A IA G CGDP"K G G AM EA $IA Q F A" I TF "F'J IFJ EA G E"K EIFOA' I E IG"J G' #CG "F'J $IA B AFCI BA AA' IAEA G DA' IG IFJ G'CA P OAJ GNA IA EG CG J F""K IFJ 'G JA'AJ ' G F' DPFEEFB"A CIFED $IAK IFJ' G"G'NA F'K E 'N"A F D I CI IAK P E AJ ' CGDDG'

T FK IFJ B G'A P 'C P"A I CI N JAJ I D ' F"" IF IA 'JA GGO > A FE IAF F'J EG " F ! GL AE F' > E MAA" 'NE FE F B G IA F'J F CA F ' 'B AJ NA'A GE K GM ADPA FDA' IFJ DG A IF' G'CA P AL A' AJ I D M GD CG'EA' 'N G DAFE AE I CI D NI IF A BAA' EA F'J BA A G IF A F""G AJ G FOA IA CG EA > A FE FDB G E MG I E CG ' K F'J IA IFJ FOA' PA IFPE DG A ' A AE IF' IA G NI G IF A JG'A ' I E E A E A E PG' IA 9'N" EI E CCAEE G'/ B M GD IA DA IA' IA CG "J 'G"G'NA B" 'J I DL EA"M G IA CIF FC A IA IFJ "F J FE JA A A K 'MA G X=G'E JA F G' F'J IFJ EA I DEA"M E AFJ "K G DF ' F ' FA CF EA MG I CI IA AF""K CF AJ

$G TF "F'J G' IA G IA IF'J IA 7AMG DF G' IFJ BAA' ' A AE 'N EG MF F'J EG MF G'"K FE P GD EAJ PG" CF" N AF 'AEE G #CG "F'J > E OAA' 'JA E F'JL 'N IFJ EIG ' I D IF IA ' G' GM IA G O 'NL JGDE FE 'A FB"K FPP GFCI 'N/ F'J M "" GM #CG CI P JA F'J #CG CI FJ G'E I E G'A IGPA FE G A'J IA "G'N F" K ' IA FK DGE N"G G E G I E G ' PAGP"A F'J G P"FCA F ! 'CA GM #CG CI B"GGJ G' IA I G'A GM IA !"F' FNA'A E $IA PA EG' FE GM " "A DGDA' G I D > A IFJ B G NI IA 9'N" EI G -A I ' IA BA" AM IF 9" UFBA I G "J DF K IA 9F " GM F' * IA' 9" UFBA I AM EAJ F'J IA @ A'CI 7 'N J AJ F'J TF K # F CFDA BFCO I E A'A N AE A A IA' JAL G AJ G EAC 'N TF K # F E E CCAEE G' * IA' IA

R AA' GM #CG E IFJ EAAD 'N"K $ ACOAJ IA P GEPAC E 1 ('
BK DF K 'N %G I A"" IA IFJ FEE E AJ F IA CG G'FL
G' GM `FDAE BA" A 'N IA' IF MG IA G ' EFOA TOQ
9" UFBA I G "J'N A I D IA P"FCA MG I CI I E DG IA 2:D:8B:<
IFJ EG "G'N ' N AJ F'J EG PFC MK IA G ' PAGP"A
F'J'N F MK #CG "F'J I G NI E P JA
e FNF ' 9" UFBA I J EFPPG ' AJ I D >A IAG AE
GM NG A 'DA' IA EKDPF IK I TF K# F E E ML
MA 'NE IA J AFJ GM IA D E ' A P A F G' GM IA G "J
M EIA J J' G P G AC IA OAP IA Q AE G' GM Q AEL
G'E E "" 'EA "AJ TF "F'J EF G IG NI IA EF
IF IA R AA' GM #CG E D E BA A A' F""K AE G AJ
F'J IA J ECG' A' GM IA 9 'N" EI =F IG" CE F'J GM IA
'GB"ADA' GM IA IG"A 'F G' 'JA F' 'EAC A F'J
'JA A D 'AJ E CCAEE G' GPA'AJ F 'A GPPG ' K G
I D I G NI IA G MG"O DF FNA >A IFJ M" 'N
I DEA"M ' G IA ECIADA I F"" I E E A'N I CF A"AEE
IA A G "J "AFJ I D EG G'"K IA CG "_` E CCAAJ
' I E N AF GBHAC > E O'G "AJNA I E PG A M "
CIF FC A I E ' A""AC F" C " F G' " E F" ' F'K
FNA F'J 'A(FDP"AJ ' I E G ' \ FBG A F"" IA AL
EPG'EA ' A A K #CG CI B AFE G IA F D I CI IA FE
P E 'N \ NF A I D F' 'M" A'CA I CI EIGGO M GD
T FK E E JA IF"M GM IA BAE GM I E M A'JE 9 A' IA
MGG" EI D ' E A E GM IA 7 O IA IFJ F"I AJ G A \ PGG
A CIAE IG M IA IFJ E CCAAJAJ G "J IF A BAA'
IF'JAJ G A G " F E%"GGJ =G 'C" 7 'G(G'"K IG
' DA A G "J"K EFNFC K FE TF "F'J E DF CI IFJ
BAA' JAFM G I E H A E FE G'E >A IFJ J JAJ IA
'GB"AE >A IFJ NF 'AJ > DA F'J IG" F'J G EA
IF' F"" IA CI F" G E 7 OF"JK GM 8 F'NA >A IFJ
MAJ A A K IA A F AE "AEE A(PAC F G' GM IA R AA' E

TF "F'J G TF K# F N 5 </ 'A CAP AJ CPIA E \ 9 !
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A '/F'J F "A'N I IA ?ANA' BA 'N JA A D 'AJ G
' CIACO I E ' N AE IFJ F AE AJ I D G' IA A JA'CA
TOQ GM ! F E F'J = F MG J FE F' FCCGDP" CA I %G I A"-
2:D:8B:< >A JADF'JAJ I E F" F'J IA KK 'J GM G ADBA FE
M (AJ G N A I D F' GPPG ' K X MG IA JAC"F F G'
GM I E ''GCA'CK > A G A G A A K M A'J IF IA
PGEEAEEAJ =F IG" C F'J ! G AE F' G AQ AE IA P AL
EA'CA F'J IA' IA JFK CFDA 9J 'B NI FE I G'NAJ
I IA F DAJ A F 'A E GM IF"M F I 'J AJ O' NI E F'J
'GB"ADA' IG IFJ CGDA GNA IA G I G F EI A"J G A
IA MF G A
$IA % EIGP GM ?GEE F'J IA I E G F'E IG IF A
MG""G AJ I D IF A CIF NAJ T FK I PA EG'F" FDB L
G' ' FEE D 'N IA NG A 'DA' GM #CG "F'J A A
PA IFPE FE IA A F PGE G' I CI F'K AFEG'FB"A DF'
G "J IF A "AEE CG A AJ 9 'N" EI E F AEDA' ' IA
CF"C "F G' GM IA M A GM IA CG ' K P"FCAJ I E
D JA FDG'N IA DGE " "CA"K GM CG' 'NA'C AE >A
IFJ 'F G "K AECFPAJ F G IF""A G' G' I E A '
M GD IA =G'MA A'CA ' IA PFE ` "K X -KG' >A F"J
IFJ X CG'EP AJ I E JAF I' F'J IFJ BAA' B ' MG
BAE IA FE EA G "A IA DGE "F "AEE CG ' K '
9 GPA A(CAP A"F'J IF"M GM F G AJ"K J EFMMAC AJ
IG F A A' A IG GGPE IG F DF' F
I E BFCO A(CAP I E G ' F'J I E M A'JE EA F' E >A
FE IA"J AEPG'E B"A BK 9" UFBA I MG IA PAFCA GM IA
%G JA E KA EIA G "J 'G FCO'G "AJNA I D FE ?ANA'
A A K ' GM IA MF'CK IA FE A(PAC AJ G BA IA
'E DA' GM IA PG" CK F'J G ACA A I E E A BFCO
A IA FE I E R AA' G FE I E P EG'A FE CG' A' A'CA G
IA I DG GM IA DGDA' IFPPA'AJ G J C F A ' E CI
F PGE G' IA A FE " "A G A' K/ F'J IF E P ADA

F'J CGDDF'J 'N ' AN K I C" F"G'A DFJA F A' A
GM PG A 'JA E CI CG'J G'E PGEE B"A F"G'A CG "J
IF A ADP AJ I D G FEE DA

TOQ
2:D:8B:<

F A GM IA ' A'JAJ FEEADB"K GM TF "F'J E PF K
IA IFJ Q A "K I IA 9F " GM TG G' E FEE E F'CA
CG""AC AJ F MG CA "F NA A'G NI MG I E G D P G AC G' M
IAK AJ G O "" I D $I E JG'A IA EIG AJ X 'G D E
"O 'N GM IA CG' GCF G' > A ACA AJ A A KG'A IG
P AEA' AJ I DEA"M I I E E F" CG AEK B BAMG A
GPA' 'N IA CG IA AQ AE AJ IAD F"" G DAA I D '
IA=G 'C " 7GGD $IA A IA AD 'JAJ IAD B AM"K IF
IA' IA FE '@ F'CA IAK IFJ A"AC AJ I D G IA
?ANA'CK IG I E O'G "AJNA F'J FNF 'E I E ""
> A IFJ E G ' G FJD ' E A H E CA MF IM ""K J 'N
I E NG A 'DA' F'J IAK G' IA PF IFJ P GD EAJ
G FEE E I D ' IA A(AC G' GM I E GMM CA $IAK IFJ
'G FEEADB"AJ ' F DE G P A A' H E CA M GD BA 'N
JG'A F'J IA JAE AJ IAD G CG'E JA IA IN I E FE
G GBEA A IA A'NFNADA' E > A IFJ 'G ' A MA A
I IA DAA 'N/ IA IFJ EIAJ G EIG IAD IF
IAK CG "J 'G M NI A' I D/ IA IFJ 'G DA A"K G EFK
IF IA M IA P AEA'CA FE ' 'ACAEEF K FE IA F"
G "J BA PGE PG'AJ "" CG "J BA MF "K CG'J C AJ
$IA -G JE" E A'AJ I E CI PF A'CA FE IAK CG "J
CGDDF'J $IAK J EPA EAJ Q A "K B T FK O'A
IF IA F JA BGJAJ M IA ABA"" G' GM IA 9F "E
NF 'AJ IAFJ ' 9 'N"F'J IAK G "J DDAJ F A"K A G"
> A EA' G J IA AMG A G 9" UFBA I IF IA G "J
FEE E IA G IA DGE GM I E PG A F'J F G'CA
A' JG ' G IA %G JA I F"" IA DA' IF IA
CG "J CG""AC $I E FE IF IA CFDA G BA F
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TOQ
2:D:8B:<

9'N"EI F DK IFJ IF"AJ G' IA G ' M G' A B F JADF'J FE EA' M GD %A CO G IA 7ANA' AQ 'N I D G F AE F'J N A IAD P %K IA AF AE BA AA' IA G CG ' AE F G E A A A(C" JAJ M GD P G AC G' B I E PF C "F F C"A IFJ 'A A BAA' GBEA AJ $IA #CG E A A A'FC G E GM IA NI GM FEK" D F'J AEPAC F""K EA'E A IA' 9'N"F'J F L ADP AJ G G"F A $IA %G JA G "F E IG G "J P" 'JA F CI CI I IA EFDA 'J MMA A'CA I I CI IAK G "J EFCO F MF D IG EA J A IA 'A NIBG E CF "A G C I E I GF ANF JAJ IA P G AC G' GM F M N A G' A IA E JA GM IA " 'A FE IA G'A J K GM I CI' 'AN"AC FE J EN FCAM " $G M"K ' IA MFCA GM E CI F MAA" 'N G "J IF A BAA' A(ADA"K JF'NA G E F F'K DA F'J F IA A(E 'N C E E IA G J 'F K HAF"G E AE A A FNN F F AJ BK IA AEA' DA' GM PF K $IA #CG E IA 7A E IA TF(A""E IA > DAE IA >APB 'E A A F"")F IG" CE F"" JA G AJ G IA R AA' GM #CG E F"" EKDPF I UA E I IA 9'N"EI 9F "E T FK FEOAJ IA IA IA D NI "GGO MG F'K FEE E F'CA M GD 9" UFL BA I G A'FB"A I D G DF ' F ' F AN "F MG CA >A IFJ 'G AEG CAE GM I E G ' MG E CI F P PGEA X > E G ' IMA FE J AC "K EG NI F'J FE I 'NE E GGJ ' FE 9" UFL BA I E ' A AE G PIG"J I D >A D NI IF A MG AEAA' IA F'E A G E CI F' FPP" CF G' A A IA"AEE MG IA EFOA GM IA NGGJ CF EA I F I F"M CG'EC G E'AEE IF IA FE EAF" 'N I E MF A ' JG 'N EG IA JA A D 'AJ G B F A IA PGP "F MAA" 'N F'J M IA CG "J 'G N A P IA 9F "E F "AFE G DFOA IAD P EG'A E -FJK G I DBA "F'J IFJ BAA' "AM BAI 'J ' IA M E IFE A'GM IA M" NI > A I EBF'J EIAJ G AHG ' IA F'J >AC G DE G'N >AC G GM >F "F IGEA 'FDA FE A A FM A 'MFDG E

'%G JA E G K 'JA GGO G N JA I D $IA ?ANA' V *
IFJ 'G CA IA A G"GGO MG I D F'J F PF K GM IG EA TOQ
A A G' IA F CI >A FE FOA' EGDA IA A ' , J 2:D: 8B:
J EJF"A 'G IG F E NN"A #GDA 9 'N" EI BG JA A E
AJ G AEC A I D F'J =FP F '%G I CO IG CGDL
DF'JAJ IA ?ANA' E GGPE FE O ""AJ/ B IA DA'
J J IA J K F'J IA 9F " FE B G NI EFMA"K ' G
`AJB NI

* AE DG A"F'J F'J IA >G G'E D NI BA IG NI
CG "J IF A BAA' FOA' DG A AFE "K MG IAK A A C"GEA
'JA T FK E IF'J $ G D "AE P IA F""AK I G NI
I CI IA E AFD 'E M GD I CI `AJB NI MFOAE E
'FDA G' IA C AE GM F BF'O I CI MF""E GMM P AC L
P G E"K G IA F A E F'J IA ADF 'E GM @A ' I E
IA' IA E G'NIG"J GM IA 7A E FE G' F ECF"A DG A
AEADB" 'N IA MA JF" CFE "AE GM IA 9 'N" EI 'GB"AE
IF' IA 'F G G A E ' I CI IA "G JE GM #CG "F'J
CGDDG'"K DFJA IA IGDAE/ F'J F" IG NI A B N"A
'G A B"G ' PG' IA BF "ADA' E CG "J BA IAF J
IA DF OA P"FCA GM IA G ' IA "F J M @A ' I E
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PF K A(CAP G I DBA "F'J FE EGG' CG""AC AJ $IA
?ANA' EA' G JADF'J IAD @A ' I E F'E A AJ
IF M IA F' AJ IAD IA D E CGDA G MA CI IAD
F'J T FK IG IFJ F E G'N MG CA I I D DFJA
F' AMMG G P ' EI I E 'EG"A'CA % BAMG A T FK
CFDA ' E NI GM IA CFE "A I E DA' JAEA AJ EG MFE
IF G GM A NI I 'J AJ IGD IA GGO I I D G
GM `AJB NI IA IFJ B G I 'J AJ ADF ' 'N
FE EKDP GD GG F"F D 'N G BA 'AN"AC AJ !"FC 'N
G I DBA "F'J G' IG EABFCO ' IA D JJ"A GM F PF K
GM GGPA E IA DFJA E F NI MG 9J 'B NI F'J IA'CA
F'EPG 'N I D G A IA@G I IA EA' I D G GCC PK
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TP
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E"F'J G A GM -GCI"A A' G I 'N CG "J IF A GCL C AJ DG A 'MG 'F A MG IA ?ANA' E 'M" A'CA/ 'G I 'N IF IA CG "J IF A JG'A CG "J IF A N A' I D F E G'NA F'J DG A DDAJ F A C"F D G' 9" UFBA I E E PPG G IA %G JA G'"K B F"" #CG "F'J FE EIFOA' $IA ''F G'F P JA FE G CIAJ X F'J IA A FE F ' A EF" C K IF CGE IF G "J IA 9F " EIG "J 'G BA N A' P $IA" BA K FE B GOA' I CI EIG "J BA M AA G F"" BF' EIAJ DA' 9 A' TG G' IG FE T FK E DF ''E FK JAC"F AJ IF I E CG ' K FE J EN FCAJ X %A AA' %A CO F'J 9J 'B NI IA ?ANA' CG "J 'G M 'J G'A DF' G E F'J BK I D X F'J IA A IA IFJ A' DG F" A'AD AE BAMG A IA IFJ 'G F I 'J AJ "G'N $ AAJ F'J $A G Ib 'J N'F G' GEA G DFJ'AEE $IA IGEP F" K GM IA %G JA IFJ BAA' CG'EAC F AJ BK IA P FC CA GM G I 'J AJ KAF E' F'J IA M N AE F @AD I E IG IFJ CGDA IA A X I ' AJ F'J J EDFKAJ ''MG 'J IADEA" AE PJJA'"K ' BA A CFEA IF' IA' IAK A A F + L IFD MG IAK IFJ F IG"A O 'NJGD F IA BFCO X BA' G E CCG IAD $ 'JA IAEA C C DE F'CAE M 9" UFL BA I ' A'JAJ G PA E E ' IA JADF'J MG IA A(FL J G' D NI IF A BAA' A(PAC AJ IF EIA G "J IF A G JA AJ IA F DK G FJ F'CA ' G #CG "F'J G IA"P IA ?ANA' G A(AC A IA EIAE >FJ EIA BAA' FE CG'

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9" UFBA I G "J 'G IF A F""G AJ F B EIGP G E F'J
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$ IA M E >A' K `GI'EG' IFJ DF AJ F JF NI A GM
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M A EGDA IAE F G' 9" UFBA I FJD AJ IA ACGDL DA'JF G'E F'J F" IA EA A' A A EPF AJ ' $ G EG'E GM G"J G G' F'J G GM I E B G IA E FM A "G'N F'J C"GEA C GEE Q AE G' 'N ' IA $G A A A AJ F'J CG' C AJ F * AE D 'E A $ G A A FM A F JE PF JG'AJ $ G G'A GM IGD FE =I E GMA IA PGG KG I IG IFJ BAA' BA CIAJ BK IA MF AKAE GM IA R AA' GM #CG E F %G" G' FE P G JAF I F $KB ' I IA E F" C A" AE

% EG MF FM A F" ' IA R AA' IFJ NF 'AJ B " "A $IA P 'C P"AE G' I CI IA NA' "ADA' IFJ BAA' JAF" I IFJ 'G A' A JAJ G EF EMK IA CGDDG'E FE G IA AQ K GM F' FJD ' E F G' I CI IFJ IF 'NAJ IA PGG IG DA CK F'J EPF AJ IA CI IG D E"AJ IAD IA' F'K I 'N FE G BA NF 'AJ BK IA " AE/ I "A IA G 'A E GM IA N AF AE F AE I CI A A G APFK IA A(PA'EAE GM IA F DK A A EFMA I ' IA #CG EI BG JA E

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IAD GM T FK/ B T FK IFJ IA BAA ' "" ' N G
CGDP"K FE A JA ' "K IG IA PG A F ' J EIA IFJ G
I ' O GM G IA DAF ' E M MG CA FE CGE "K AFC IA K
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DG A"F ' J F ' J G"J G G ' CGDP"F ' AJ GM IA CG F J CA
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FE G ADP IAD M PGEE B"A G CGDA BFCO G 9 ' N"F ' J
F ' J E A MG IA PF JG ' E I DG AJ IA J ECG ' A '
F ' J BANF ' CF G E"K G E NNAE IF ' E AFJ GM E L
' N G ABA"" G ' IAK EIG "J K EGDA G IA P"F '
* AE DG A"F ' J FE P G J GM I E B I P G J GM I E
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' AEE M GD F F ' PG ' I E EC CIAG ' F E AFEK G
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I CI IA IFJ F IAF BK G O ' N "AN DF A"K BK IA
E JA GM I E M A ' JE F IGDA IF ' BK E FK ' N FB GFJ
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$IAK AQ AJ F MA IG E G CG'E JA $G E PPG I E CIF FC A # 7GBA EPA' IA ' NI F F IG EA ' `AJB NI I CI FE IA IF ' GM Ib DGE JAEPA F A DA' PG' IA %G JA E $IA P"FCA FE I G'NAJ I IAD $IAK A A P"FK 'N F CF JE IA' IA CFDA ' X EGDA MG J 'O EGDA MG IF JIAFJE >A EF JG ' F IA NFDA $IAK A A F"O 'N GM IA ?ANA' X $IAK EIAJ IAK IFJ >AC G GM >F "F MA IAFJ G BA AF A' FDG'N IAD F E PPA / F'J FE G T FK X EGDA EF J IA CG "J 'G MG IA IG'G GM I E CG ' K JA" A IA 9F "E M IA IFJ IAD BG I '"AEE IA R AA' FE AE G AJ/ G IA E IF X M IA G "J FN AA G IF CIF'NA IA %G JA A E G "J E F P F'J A A BG I R AA' F'J -G JE M GD I D MG IA " OA EIFDA FE 'A A JG'A ' #CG "F'J I $IA 'AE DG ' 'N IA EF * AE DG A"F'J FNF ' A IA IA 'G G G' IFJ DFJA P IA D 'JE $IA 9F " EF J IA CG "J 'G "AF A @A ' I E IG "o DFO 'N IA -F J EGDA P AL EA' MG I E IGEP F" K >A JAE AJ =G'E FB"A G NG G IA =G ' AEE IG FE E "" ' 9'N"F'J F'J FEO IA G N A I D EGDA CIG CA HA A" I I CI IA CG "J A ' G `AJB NIQ MHA IF IA NF A I D IGPAE IF IA

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BA O'G ' IA G "J F IA BA G ' A A K HG ' M GD
G IA M IA 9F "F'J G G' CIF'NAJ IA D 'JE
IA -F J GM 9A ' I E FE PGG F'J CG A G E >A
FE HAF"G E GM * AE DG A"F'J F'J IA BFJ IGEA FBG
I D X IF D NI PA E FJA I D G JG F'K I 'N MG
P GM X IG EF'J PG 'JE EA"K BAE G AJ G "J
AMMAC DG A IF ' A' IG EF'J DA'

-G J > 'EJG' EAADE IFJ 'G 'C" 'F G' MG JAF"L
'NE GM I E O 'J >A 'A A CAFEAJ G NA IF I A
R AA' EIG "J X DG A ANF J IA IG'G IF' IA P EA
#GG'A G '"F A EIA G "J BA GB" NAJ G EA'J GGPE ' G
#CG "F'J G X ACA A IA EIFDA G IF A IA ABA"E OAP
IF A A EIA CG "J JG #FJ"A IG A A EA' =G'L
E FB"A E"A A G' G IA =G /=AC " EIG AJ G IA

X =G'E FB"A G #FJ"A ``F' 3 ' / ; C=> ' >' 6:D @' $ ' KK ('
- ' ' G"' '&' (

R AA'/ F'J FM A ACA 'N IA 'E C G'E AP" AJ
IF =G'E FB"A FE G IA A'CG FNAJ G P GCAAJ X >A '
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G P GEAC A I E A' A P EA G F ' IA ABA"E G
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MG DAJ/ IA TFHAE K E A K JAE G E G IF A IAEA
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G JA G' G =G'E FB"A X IA BA A EA CA EIF"" KG JG
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% 9" UFBA I FE 'G PA D AJ G EG " IA MFDA
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MIA 9F " GM T FK FE FE CG'EC G E FE =AC " IF Ib
' A AE E GM #CG "F'J F'J 9 'N"F'J CG "J 'G BA EAPFL
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#CG EI R AA' IFJ E CI MF G A E ' 9 'N"F 'J FE A"" ('
GM ! FP E E FE G IA E IF MF G AJ IA DF FNA
. 'JA F"" J EFJ F' FNAE IA IFJ IA"J I E N G 'J ' TP
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BA E MM C A' / B IF E D F "AFE IA FE A' "AJ
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9" UFBA I E ' A AE / G IA EA X IA D E MG BAF G

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A' A I E " MA FE IA IFJ JG'A M IA FE "AEE CF AL M G P"AFEA 9'N"F'J IA CG "J DFOA I E PGE G' AFE A F IGDA/ F" IG NI FE A IF JF'NA E G "J IA' A'E A G BG I IA AF"DE BK IA 'C AFEA GM IA !GP EI MFC G'E >A JAE AJ 9" UFBA I G BA AD 'JAJ IF X EIA IFJ IA IAFJ GM F"" IA G B"AE F IA CGDDF'JDA' $IA ABA"" G' FE 'G A'J_YJ IFJ DG A JF'NA G E B F'CIAE F'J M FE 'G 'G ADAJ AJ IA MF " G "J " b I I IA T FHAE K $IA A FE 'G F G J '"F"" I E I CI FE 'G DGE AFEG'FB"A F'J A B 9"PI 'E G'A CFDA G IA =G F F' 'CG' A' A' DA DPF A' 'H E F'J IAFJL E G'N 9" UFBA I EF J IF MG IA DG'AK F'J IA G IA DF A E GM I CI T FK IFJ A' EIA G "J I 'O G A IA E BHAC F'J EA'J EGDA G'A G CGDD 'L CF A I I D FBG TAF' DA EIA D E IF A X IA ABA"E #FJ"A # EEA(> 'EJG' IFJ G"J IA I G'A G CA IF CG "J 'G BA\ G "J CGE T FK I E" MA G K /' B EIA J J 'G CF A G J J 'G CIGGEA G BA" A A IAD $IA ABA"E EIA EF J X BAE JAE I NI AFL EG' FNF 'E IA EA"M F'J IA C G X IFJ P PGEAJ IA F" A F G' GM IA CGDDG' A" N G' AE FB" EIAJ ' BG I IA AF"DE/ IAK D E BA N A' P G IA F G'CA X $IA 'O FE ECF CA"K J K PG' IA "A A BAMG A EIA "AF 'AJ IF IA MAF E GM IGEA IG 'JA E GGJ #CG "F'J BA A IF' IA EA"M IFJ BAA' GG MF F""K H E M AJ

" IG NI G IA =F IG" CE G IA M A'JE GM T F K # F G IA M A'JE NA'A F""K GM F'F CIK F'J IA NI GM A A K DF' G JG FE IA P"AFEAJ\ F "F NA C"FEE F I E DA '#CG "F'J\ IA FJD ' E F G' GM T FK FE ' A A K FK JA AE FB"A KA IA J E ' A AE AJ '

' + ;<<$ ' >'6:D @' $ ' N Y ' 3+

' . > :C' >?' 9:' 8$:<' >?' ' ,@ I$B: 9' >' + ;<<$ ' $ ' KU

+<' ,@H9 C > :C' C <;D > C Y

AN K GM I E CIF FC A /' IA FC K F'J AQ K GM I E
NG A 'DA' IFJ CGDDF'JAJ AEPAC A A M GD IGEA
IG DGE J E" OAJ I D $IAK D NI GPPGEA I E PG" CK
F'J IF A I E P 'C P"AE B PA EG'F" " "FE IA IFJ
'A A JAEA AJ M GD F'KG'A IFJ 'A A I IA G BAA'
MA" G F JE I D A(CAP BK I E E A $IA F AE GM
G I DBA "F'J F'J IA E PPGEAJ ' A' G' GM E L
A'JA 'N I D G 9" UFBA I IFJ CF""AJ G F EP
FNF 'E I D I CI IFJ 'G BAMG A A(E AJ F'J F' GPL
PG ' K FE C AF AJ MG I E JAE C G' I CI IFJ
BAA' "G'N F'J F'(G E"K F CIAJ MG
$IA P"G MG IA D JA FE G N 'F""K MG DAJ '
TF K # F E IG EAIG"J M EIA IA EA"M FE 'G IA
P DA DG A ' ' $IA PA EG' EA"AC AJ MP IA JAAJ
FE `FDAE >FD " G' GM %G I A""IF NI 'APIA GM IA
CIB EIGP GM # ' 'J A E F'J GM IA + OA sM 87F A"
IA F " $IA CG'J C GM IA >FD " G'E MG IA A'
PFE KAF E IFJ BAA' ' MG D"K BFEA $IAK IFJ MFL
G AJ IA ?AMG DF G' I "A IA A FE F IGPA GM
DF K 'N IA IA GM IA IG EA G 9" BA I T$AI
I E "YGPA MF "AJ IAK AJ G EAC A TF K # F MG
I D/ F'J IA' EIA JAC" 'AJ IA IG'G IG NI GM
CF K 'N IA GMM BK MG CA $IA CIB EIGP IFJ BAA'
F PF K G IA D JA GM +F '"AK >A IFJ J G CAJ
%G I A"" F'J IA"PAJ IA R AA' G DF K I D ' IA
IGPA IF EIA G "J ' IA EA"M * A' EIA FE F
-GCI"A A' IA IG EA GM >FD " G' G "J IF A G AJ
MG IA JAF I M IA "A G IA C G ' IFJ BAA' ACGNL
' EAJ ' >FJ IAK G' F -F'NE JA EIA FE G IF A AL
PF J IA EA CA BK DF K 'N IA BBG GM B GF I
E AFJK 'J MMA A'CA G A A K ' A AE B IA

' 2 D:' :@ = D9>' , 8 B$ $=><' =:' ' : $% ' I ' ' . ' '
,CD>D $'L ; :' :<$ $'D>C$' D> D:< $=$' ' 5 z $' G"'
: <:' H$< D;@$<:C D< $=>C =:' @$

G ' F J E ANF J GM A A K GB" NF G' GM H E CA G
IG'G M IAK CG "J EAC A IA = G ' GM #CG "F' J G
IA " 'AFNA IFJ N A' F CG'E E A'CK G IA CG'J C GM
IA >FD " G'E BAKG'J IF FE G BA MG 'J ' F'K
G IA #CG EI MFD "K G EC P"AE GM A" N G' IFJ
J E BAJ IAD ' 'G "GKF" K G IA #G A A N' ' 'G CF A
G IG NI MG IA P B" C ' A AE E GM IA CG ' K
$I G NI NGGJ F' J A " ' I G NI I F' J '" AE I G NI
' N AE F' J B"GGJEIAJ IAK G OAJ IA FK G F JE
IA G'A GBHAC GM F BFEA FDB G'

T FK FE IA N AF GBE FC"A * I T FK P
G GM IA FK IA " "A `FDAE G "J 'G BA "G'N F
J MM C " K @G IA P AEA' F' J MG IA DDAJ F A
CG' A' A'CA IAK A A DFO 'N EA GM TF K # F E
'FDA FE EIA MG IA G ' P PGEAE FE DFO 'N EA GM
IA E ' $IA F"" F'CA G "J "FE ' FE "G'N F# FE CG'L
A' A' ' F' J F I E PG ' ' IAK A A ' AJ ' ' F CGDL
DG' JAE A MG IA ?ANA' E JAF I

%G I A "IF NI IFJ BAA' FOA' F -F'NE JA " E
" MA FE MG MA AJ F' J IA IFJ BAA' PF JG'AJ BK T FK
FNF 'E IA FJ CA GM IGEA IG O'A I E 'F A F' J
IA AMMAC I CI NA'A GE K G "J P GJ CA PG' I D
> E "F' JE IFJ BAA' AECIAF AJ F' J FOA' PGEEAEE G'
GM I E MFD "K A A ADG AJ M GD I E IG EA F' J P CL
AEQ A E G'E GM F JAEG"F A MA J A' G ' G IA
GGJE G F' JA EIA" A "AEE IF A EA AJ ' IA AKAE
GM TF K # F E FJD A E G H E MK IA A'NAF'CA
GM F IF"M DFJJA'AJ I EBF' J % IA E G K AE E G'
"ANA' J # CI ' JAAJ IFJ BAA' IA FC F" MF A GM - FJK
T FK IA' TF K # F FE ' IA M" EI GM IA
E CCAEEAE FM A IA DF FNA I +F '"AK/ B IA
=FE "A GM >FD " G' FE "F NA A'G NI G ACA A IA
IG EAIG"J GM EG 'AF F O 'EDF' GM E CI AME F' J %G IL
A "IF NI FE IA "" 'N 'E DA' GM F C DA I CI

IFJ BAA' CG'CA AJ BA AA' TF K # F E MG""G A E ('
F'J IA EG'E GM IA + OA GM =IF A"IA F " EEFE
E 'F G' FE F' FCCGDP"EIDA' ' I E MFD "K `GI' TP
>FD " G' F 'G G G E JAEPA FJG IG FE I E B G IA $;$<
G 'AF A"F A IFJ BAA' ADP"GKAJ ' @ F'CA G
D JA =G" N'K F'J E 'N "F "K A'G NI F IF A K
DJDA' ! I " P IG F" AJ E CI EA CAE IFJ
I E AKA PG' I D FE F PA EG' IG D NI BA EA'
G "GGO FM A \ EG ! I " P P"AFEF' "K P \ IA
! 'CA GM) F'NA $IA CF F" A G "J IF A FOA'
I IA DGE O 'J" 'AEE G IA GCC PF G' B I E
AP F G' MG E CI F GC AE FE EG 'G G G E IF
! I " P FE FJ EAJ G CIGGEA EGDA G'A FNF 'E IGD
IA ! 'CA G "J BA "AEE " OA"K G BA PG' I E N F J

' '6 $C 8 :' 3$ = D9> =:' H$ >' =:' 8 ;<=:<:<' >?' + ;<<$ ' ' $C' >'
' + $F ' L ; :' 8 <:' $'C:< $' X' H<>H>C >' ?$; @ ' >?' ' > 9 :@@9$; F9' 9$ ' 9 :' $C'
:C :' 4$B:@@:< ' ,CD>D:C' H$<$' : E $<@:' > ' : 9 :<' 9 :' :7:D; > :<' >< D> \
j' B ; CD$<' $@' 1< D H :' = :' <$ F: ' , @' < E:<' >?' B> 9' >?' 9 :' E?@:C ' CCCC $\
= D9>' 4$B:@@:< ' :C' : =>' H><' $ \ > C' 9 D9' = CF<$D:=' 9 :' C 7 : : 9'
8 >C>' 8 ; D9> ' ' 9$' @>' 8 >C <$=>' : ' D: ; < ' ' , ; <>
=>C' D>C$C' H$< D ; @$<:C' L ; :' C:' @:' 9$ '
: D> 8 8 : =$=>' L ; :' C : =>' 8 ; ' = ?(' ' 9 :' KM<=' >?' ! :H : 8 B:<' TPM '
? D ; @ >C$$' @$C' 9$' 9 :D9>' 8 ; '<:= ; =:C' ' > 9 :@@9$; F9' <> :' 9 ; C' ?<> 8 '
' D<:>' L ; :' D> ' C>@>' H> :<@:' >' : ' ' <; CC:@C' >' &@E' Y
L ; :' ?; :C:' X' B ; CD$<@:' C ' L ; :' : : \ + ' $??$ <C' 9$ J' 4 >=' $<:' '
= :C:' L ; :' :C' E>@; $=' =:' ' +$F ' F>>=' D$C:' ' ?>; =' 9 :' 2 ; J :' >?'
@>' 9$<X' 'C:' $<<> $<g$' X' D ; $@' L ; : ' &@E$' $ ' & 8 C :<=$ 8 ' 9 :<:' ' CH>J :'
H:@ F<>' 1 :<>' H$<:D:' L ; :' ; '9> 8 B<:' 9' 8 :' 2 ; J : C'C:D<: J Z'
$ ' > $=>' 'D> >D =>' H><' @>C' D$C>C' > ' 9 :' 9 F' >=' > '>?' *9 :' # F'
L ; :' @:' 9$ ' C ; D:= => ' ' L ; :' $ 8 B [' >?' ! H$ ' @@' '9>H: ' C>> ' J > ' 8 '
:C' > >< >' : ' A<$ D $' ' : ' > <$C' =:C <:' >' C:<E:' 9 8 ' ' C$ ' ><J F'
H$< :C' L ; :' @:' D> E =$B$ ' X' 8 $ $<' $@' > ' $@@' C =:C' >' H ; ' 8 $:<C' ' <$ '
&@ 8 <$: ' H>=<g$' D> ' 8 $C' = g? D ; @ X=' $ =' ' 9$E:' ?>; =' $' F: @: 8 $ ' >?' 8 '
L ; :' > <>' <' $@' :?:D >' $<< B$' = D9>' C ' $ > ' 9>' 9$C' B: : ' $' D$H $ ' '
C:<' ! :CD ; B :< > Y 6' ' / $$<@: 8 ' :@@' ? :=' ?><' C ; D9' $ ' : \
I ' ' . ' , :B ' KN' TP ' :<H< C: ' / :' C' E:< ' B<$E: ' $ =' '
' ' c 9$E:' C>' ><J :=' ; H> ' 9 8 ' 9' H<>\
8 C:C' $ =(' H:<C ; $C > C' 9$ ' 9 :' 9$C'
' ! F ; @$<@ ' $@C>' $? :<' 9 C' H<:C: ' F> :' $? :<' 9 :' 1< D:' >?' <$ F:' >'
*G Ó $C' $DD> 8 H@ C9 :=' 9 :' D9> D:' ? C9' 9 :' >B ' *<; C ' 8 :' ?' 9 :'
?><' 9 C' H ; <H>C:' ?:@@' $D ; $@@ ' > ' 9 : 9 F' C' H<$D D$B@:' 9 :' @@' =>' Y

9 - S ' ' !

9J 'B NI 'G GMMA 'N CG' A' A' GPPG ' AE F' ' DF G' FE B G NI G T FK IF M IA G "J NG G + DBF G' -G J @"AD 'N FE AFJK G E A'JA IA =FE "A >A * A' FE MF FE 8"FENG B 'G'"K G M 'J IF IA IFJ BAA' D E"AJ F' J IA A 'AJ FM A F MA JFKE G # " 'N %G I A""IF NI IFJ BAA' G' IA F CI MG I D F DG A IF' G'A EPG PG' IA GFJ B IA >FJ BAA' 'FB"A G DFOA CA F ' GM I E F D F' J IA J J 'G DAF' G EO F MF " A = C DE F'CAE AQ 'N IA 7ANA' E P AEA'CA FNF ' ' 9J 'B NI IA"AM # " 'N G' IA FM A 'GG' GM IA KK'J GM `F' F K F' J IF ' NI E"AP F - '" ING $IA G ' IA' CG'E E AJ GM G'A "G'N 'F G E AA @G JGG E BAKG'J IA ?AL NA' E "GJN 'NE FE F IG EA BA"G'N 'N G IA CIL B EIGP GM # ' 'J A E I CI FE GCC P AJ BK G'A GM I E JAPA'JF' E @ GD IA M E "F'J 'N P"FCA F 'JG GPA'AJ PG' IA E AA IA E F CFEA "AFJ 'N J AC "K JG ' M GD G IA BFCO NF JA' F IA A'J GM I CI FE F "F'A GGJA' BF"CG'K F' F"G'N G E JA IA

5 $ $ G" * 9: F: @: 8$ > 9C $ = F 9 C ? :CC ?$ @:= ' ; / $8 @ > $C > = C9:$< : := $ = 8$=:$ > 9:< <$@

9 : O 9 >? + $ TPT &F ; (' @> C:D<: $ '>? 9 :'!H$ C9 , 8 B$CC $ 1$< C' <> : > 6$ $C Y

$8:C /$8 @ > :@@C 8 : >? $ H<$D D: 9 D9 9 :' $ = $ > 9:< !D> 9$E: 9$ = F C' 9 :' 1< D: >? <$ F: / : 8 :$ > CH:$J $B> ; 9 /> ! $ D9> = &E @$ ' B ; >@= 9 8 9 :' 9$=' B: :< $==<:CC 9 8\ C:@? > 9 : F>E:< >< $ > D: 9$ 9:<: 8 F9 > B: >> 8$ H:<C> C 9 :' C:D<: F$E: 9 8 $ @: :< >? <>=;D > $ = $@@ H>CC B@: : \ D>;<$F: 8 H> F >; 9 :' C:<\ E D: 9 D9 9 :' >;@= =>' > 4>= 9 C +$:C $ = 9 :' , C $:' >? 69< C : \

=>8 Y 3+

A $@@ 'C:: 8C 9$ 9 :C: / $ 8 @(' > C >9 $C :@@ $C $8 :C :<:' >B: :< 9$ '9 <: =' B<$E>C $ = :<:' > H$< D;@$< 9> 8 9 : 8 ;<=:<:= ?' 9 : D>;@=' F$ $ 9 F B >9 / $ 8 @ > ?><' C:E:<$@ :$<C 8$ $F:=' 9 :' C:D<: D><<:CH> =: D: B: : / $< ! ;$< $ =' &@E$ 9 :' CH< F >? TPM 9 : 9 :' C$ 9$ + $< ! ;$< $C F> F' >' ?$ @' 9 :' B:F$ >' 9 J'>?=> F C> 8 : 9 F >'<:D>E:<' ?$E> ;<' 9' 9 :'> 9 :<' C = : $ =' 9 :' C: ><=' ?<> 8' '<;CC:@C >' 9 :' , $<@ >? + >< > 9$ '9 :' $C $ 9 :' 5 :F: C D> 8 8$ =' >' =>' 9$ C:<E D:' 9 :' >;@=' : 9 :<' 9 :<:' 9' 9 :' 2 ;@ :' >? &@E$ '><' E< 9' 9 :' % ; : >? !D> C Y) * + + $<D9 N' TPM'

IG EA G' F "A A" I IA 'JG FE F "AJ '
M G' F'J IA' C"G IAE A A I 'N PG' IA BF E IAK
MG DAJ F CG' A' A' EC AA' BAI 'J I CI F DF' CG "J] $;$<
AFE "K CG'CAF" I DEA"M >A A G' IA DG ' 'N GM IA
KM J CG CIAJ >FD " G' GM%G I A""IF NI $IA BBG
GM B GF I IFJ "A' I D I E G ' CF B 'A/ IA BAE
IG EA ' IA E FB"AE GM >FD " G' =FE "A FE F IA NF L
JA' NF A ' IA "F'A F EACG'J FE F 'N F D "A
J E F' F'J F'KG'A IG GJA JG ' IA E AA ' IA
J AC G' GM9J 'B NI G "J IF A G PFEE I ' I AA
KF JE GM IA FEEFEE ' E I J 'N P"FCA $IA EAC A IFJ ' G
BAA' OAP I A' A M JA" K #GDA G'A ' FE 'G
O'G D IG CFDA G T FK E BAJE JA BAMG A IA GEA
G"J I D IF %G I A""IF NI FE "K 'N ' F MG 'I D
F'J 'FDAJ IA IG EA IA A IA G "J BA MG 'J ' %
T FK FE IA PA PA F" GBHAC GM CG'EP FC AE >A
ACA AJ E D "F FD 'NE P GBFB"K G' IF"M IA JFKE
G' I CI IA A' FB GFJ >A IFJ DFJA P I E D 'J
G JF'NA FE PF GM I E PGE G' F'J IA IFJ CAFEAJ
G IAAJ ' >A IFJ 'G"A E A G I 'O G I DEA"M
F'J IA IA IA" AJ G J AJ FE 'G GM F" DGDA'
G I D >A PF J'H E E MM C A' F A' G' G IA F ' 'N
G P GPGEA G "AF A IA G ' BK IA GPPGE A NF A/B
IA' IA CFDA G F'J DG ' AJ I E IG EA IA MG 'J
I E N F J J F ' P F'J IA E AA ' G AFE "K PFEEFB"A
' IF J AC G' F'J IA IG NI GG " "A FBG IA
DF A G J E B IAD FE EF J IF IA G "J
IF A E F AJ F F NF""GP % IA PAGP"A A A F"" G
G"GGO F I D $G IF A JJA' MFE I G NI IA C G J
G "J I F A BAA' JF'NA G E F'J EG F F MGG E PFCA IA
PFEEAJ ' M G' GM%G I A""IF NI $G D EE I D EG FE
DPGEE B"A

' /; C=> ' >' 6:D @' $ ' IO Y ' " ' 6>8H$<:' - > -'
$ =' < !

$ $ IA EIG FE M AJ \ IA P I E IF'J G I E E JA F'J \ r EF J IF IA yE G JAJ/'B IA FE FB"A G F" NI F'J"AF' 'N G'-G J #ADPA"" IA A 'AJ G IA IG EA I CI IA BFJ H E "AM ! A IFJ BAA' I X FBG A IA 'F A" F IA B G' 'N GM IA JG B"A $ Ib BF"" IFJ PFEEAJ I G NI I D F'J O ""AJ F IG EA G' IA G IA E JA ' IA CG'M E B' IA D JA A AECFPAJ $IA C"G IAE PG' IA F CG'C AF"AJ IA EDGOA F'J D ' AE PFEEAJ BAMG A IA 'JG FE J ECG A AJ M GD I CI IA EIG IFJ BAA' M AJ ! F AE GM DA A A G' F ' ' IA "F'A G JAMA'J I D M IA FE ' JF'NA /B IA IA"P FE 'G AQ AJ F'J ' F MA IG E IA I DEA"M IFJ B G NI IA 'A E GM I E E CCAEE G >FD " G' =FE "A IA A IA FE ACA AJ I F' ACE FEK GM A(" F G' $IA'CA F JFK G G FM A IA DFJA I E FK G @ F'CA G BA ADP"GKAJ FE IA AFJA IFE EAA' G ACA A IA IF'OE GM T F K # F F'J G " A PG' IA FNAE GM I E F'J G IA "" F' AE

$IA 9ANA' J J 'G F M E BA" A A IF IA FE EA G E"K I B G' A(FD 'F G' GM IA G 'J FE EAA' IF IA IFJ B F MA IG E G" A > E M A'JE ' IA B A N AM AD 'JAJ I D GM IA FJ CA I CI IA IFJ 'AN"AC AJ FM A -F'NE JA >A EF J CF"D"K IF X IA CG "J 'A A APA' GM I E C"ADA'CK * I' IA EFDA DGJAE Q A 'AEE I' I CI IA IFJ" AJ IA DFJA I E MA F F'NADA' E >A CGDDA'JAJ IA 7 'N G

' ?><8$ > '$: ' 9:' 5:F: C 8 <=:<'A:9' TP Y ' _' + $< '! ;$<'=: :=' 9$'C9:'9$='= <:D :=' 9:' 8 ;<=:<' B;' C9:' ($C 9:$< @ '=:@F9 :='$ ' '$ ='C9:'F$E:' '>9(:"9$;F9' $' H: C>8' ' 9:' KU 9'>?'&;F;C ' TP 'C9:' <> :' >' 9:'&<D9B C9>H'>?'4@$CF> Y $6:' L;:' '>9 :@@9$;F9'$'?$C'$:C ['C$ C'8> 'D>8 8$ =8: '=:'L;>' :'@; 'C $ '$;CC 'B> 'F<['::'8:@@:;<' L;:' C' :;CC:' :C [' =;' > C:@' $: ='@:C' 8[8><:C' L;:'8:' => ' E: ' :C <:': E> :I' =:'@$'<:D:H :' =:' 8> ' =>;$<:' H>;<' ?$<:' 8> ' :C n ' > ' :' > B@ :<$ '@$'H: C > ' =;=D@' '>9 :@@9$;F9 Y / 'E>@' c-' H' MN

#ADPA" F'J TF F'J "F EPAFO'N`F AP GFCI V "
M G J GM F'K DF' J AJ F" "A BAMG A D J' NI
TF'K F PG" CF F GC K IFE J EN FCAJ IA I E G K TP $;$<
GM IA % EI'F G' E F Q AE G' IA IA FDG'N
IAD F" IA A CF' BA MG 'J F'K I CI FE DG A EAL
"AEE G E P GHAC G E G DG A D ECI A G E ' E DL
DAJ F A CG'EAQ A'CAE J J 'G B 'N BFCO TF K
F J J 'G GPA' F GFJ G IA I G'A G IA
>FD "G'E G ' BFCO IA JA GM IA ?AMG DF G']
M" 'N G'"K F JAAPA ' GM N'GD 'K G' I E E E A
F'J IA M A'JE F'J NF A G A #CG "F'J G I AA
KAF E GM D EA K

* I' F PA A E K ECF CA"K "AEE IF' IA MG""K I CI
JAE GKAJ I E "MA I E DADG K IFE BAA' EFC M CAJ G
EA' DA' F"ED/ F'J IGEA IG CF' EAA G'"K ' IA
! G AE F' A" N G' F' P E 'N GM ' CI E F'J '
IA R AA GM #CG E IA BAF M C D GM EAC F F'
'Q K IF A A(IF E AJ PG' T FK IA AEG CAE GM
A"GQ A' PA F G' F'J IF A JAEC BAJ I D FE N
PA M J G E B G IA B "J 'N P I E G ' M# 'AE G' IA
G'NE GM I E 'H AJ #G A A N' ' IA AKAE GM IAGL
"GN F'E G ' IA AKAE GM I E G F'E IG FOA IA 'EP L
F G' M GD IAG"GN CF" EKE ADE IA EF ' CIF'NAE ' G
IA JA " F'J IA JA " ' G IA EF ' FE IA PG ' GM
A E EI M AJ M GD G'A C AAJ G F'G IA % MFC E
P A F" F "FE IG A A PFEE G'F A IA P AJ "AC G'/
F'J IA' IA A J C GM P"F ' I DF' EA'EA CF' NA
EA"M P G'G 'CAJ IA XNGGJ ?ANA' " FOA I E
P"FCA FDG'N IA BAE F'J N AF AE DA' IG IF A A A
" AJ

TAFE AJ BK KAF E I E CF AA FE G'JA M ""K B AM
>A FE A' K M A IA' IA 9'N" EI A A F -A I/
IA FE I K M A IA' IA FE O ""AJ % ' DAE
GM A G" G' DA' F A Q CO"K > E "G IFJ BAA'

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TP
`F F K

CFE ' IA D JE GM CG' "E G'E IA' F F'K DGL
DA' IFJ IA CF AJ MG PA EG'F" FJ F' FNAE F EFMA
F'J P GEPA G E CG EA "FK GPA' G I D/ B EG MF FE
I E CG'J C CF' BA FCAJ I E ' A AE E A A J JAJ
G'"K BA AA' J K G I E CG ' K J K FE IA 'JA L
E GGJ ' G 8GJ/ F'J FMMAC G' MG I E 'MG 'F A E E A
@ F'CA AJ ' F ' G B BA I D MG IA O'A IF IA
A NGGJ GM #CG "F'J "FK ' F"" F'CA F'J A A' F"
'G' I E F'C A' A'ADK/ F'J IA P AMA AJ G BA
EAJ M"AJ I FDP"AJ G' BK 9" UFBA I G BA 'N
IA E AJ F'J F" AJ M A'J GM =F IA 'A JA TAJ C
' F"" 9 GPA IA A FE 'G F DF' DG A P GMG 'J"K
A G IA P 'C P"AE GM IA ?AMG DF G' G DG A CG'L
E E A' "K \ ' IA BAE EA'EA GM IA G J \ F EA F' GM
8GJ > E IG EA FE CGDPF AJ G X F IG"K ADP"A
IA A 'G MG " G J FE A A EPGOA' ' CIFP A GM
IA % B"A FE AFJ A A K JFK FM A J ''A F'J E PPA
' I E MFD "K) 'A G DG A D ' E A E GM IA 7 O A A
E F"" K FDG'N I E N AE E F'J IA CG' A EF G' CI AM"K
'AJ G' EG M A EA G E E BHAC V A ' 'G G'A FE DG A
M AA M GD EG F E A K > A Q F A""AJ G'CA I
7'G(X EG IF IAK EPGOA 'G GNA IA MG A NI AA'
DG' IE BACF EA I E 'F A EI 'O M GD A(AD K GM
' G"A F'CA BACF EA IA 'E E AJ IF I "A I E E E A
ADF 'AJ F =FM I G" C EIA EIG "J 'G BA ' A J C AJ M GD
IA DFEE ' $IA IF J CG' C G'E GM IA G"J ?AMG DA
AA H E M AJ BK IA AE " $IA DFEE ' IGEA JFKE
DAF' ' N A CG'EP FCK ABA"" G' D JA M 'GL
I 'N A"EA G "J EA A/ F'J BA A ' G "J IF A
BAA' MG T F K # F BA A MG #CG "F'J BA A MG
IA B GFJ A"MF A GM 9 GPA M ' IFJ BAA' IA"J F
F DE "A'N I I "A IA BF "A "FE AJ BK A A K CG ' K
M GD I CI ' IFJ G'CA BAA' A(PA"" AJ % ' IA A G E
GM T FK \ M ' DFK BA EG EF J GM F'K A G E \ JAEA AJ

F IA G BA FJD AJ IF' CG'JAD'AJ ' IA "F A => !
J MMA A'CAE I CI F GEA BA AA' I D F'J IA R AA' ' .
IA OAP F IA E JA EG "G'N FE IA CG "J IG"J IA BFCO TP
M GD G'N >A AE E AJ IA BK MG CA IA' ' DF $;$<
K 'N +F '"AK EIA EAADAJ P" 'N 'N ' G F' A"ADA' '
I CI EIA G IA >AMG DF G G "J BA ACOAJ/ F'J
IA' IA MF "AJ F'J ' MF " 'N FE J EG 'AJ I 'E " E
BK 9" UFBA I IA F"G'A GM F" I E PF K 'A A E A AJ
I G NI PA EG'F" AEA' DA' M GD IA A A' A'G GM
I E CG EA

M A F JE IA' I E E E A 'AJ FE JA M GD IA
P E GM I G'AE G" E F'J C DA T FK GGO 'G
PF ' ' IA "J A A'NA I CI MG""G AJ >A IL
J A M GD F ECA'A IA A 'G IG'G FB"A DF' CG "J
ADF ' I " MA F'J A 'AJ G'"K G EF A IA M GD
H J C F" A B G') '"K F "FE IA' EIA MG CAJ
PG' I D IA F" A 'F A GM AF 'N IA FE F P B" C
A'ADK G GM FBF'JG' 'N #CG "F'J G F'F CIK F'J
' IA GGO I E M 'F" PGE F IA IAFJ GM F"" IQ
FE NGGJ F'J 'GB"A FDG'N I E CG ' K MMA' F'J IA A
DA IA MF A I CI M GD IF DGDA' FE DF OAJ G
MG I D

E F "A IA FE EA A A B ' 'M"A(B"K H E $IA
CG P G' I CI IFJ BAN '' F IA I G'A IFJ EF F AJ
IA CG E GM"F ' ' IA EIG "A E A I CI IA CG "J
E'F CI M GD I E G '"FBG E IA EF G' F"E I' IA
H JNAE/ F'J X I E P AEA'CA E CO E CI A A A'CA ' G
IAD IF IA PGG A A 'G GPP AEEAJ BK MF"EA FCC EF
G'#H 'G AJ G MBK"G'N F A'JF'CA ' G IA CF EAE
P GMM G N F MK IA CI >A IFJ I E MF IA E AE
IG I E MF IA E 'M D AE/ F'J EG I E CI PGG
AEG CAE FEc IA CG "J CGD DF'J F IGDA I' IG""G
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#CG "F' J' FE E CO G IA IAF BK I E JAF I $IA
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' F BF""FJ I CI FE P B" EIAJ F 9J 'B NI DL
DAJ F A"K FM A T FK E JAF I FE A' P GL
BFB"K BK ?GBA - G J #ADPA"" G' IGEA F D IA "AF'
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' * 9 :' , 79>< $ >; ' >' $@@' H@:$C$ =' 9 F C' L ; 9$ < ' 8 $ 'D$ ' 9$@?' = : @ :' >'
9 =<$ ' 9$ <' H@:C ; <' ?<> 8' 8 $ J =: ' $ =' >' = : H@> <' 9 :' D< ; :@@' + ; < 9 : <'
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0 :' + >; $:C' 8 ; 8 : ' :' E$@$ C' :H:
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2 : H@> <' > ; <' @$ ' 5 : F:
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*>' >HH ' > ' : ; : < :' 8 ><<>

*9> '3$; $ =' @ ; <J ' 9> ' * 8 :' B :'
* > ' + $<F : @: :' C $?
*9> '6$8>8 @=: ' :' B @ ' $ =' 8
0 > ; <' ?<$F<$ ' >=>8 C' @$?
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& =' >@$ C' 9$H' > ; ' 9' CD9> ; < $'
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*9> 'F<: :' 5 > $ 8 $< ' 9 =: ' 9 ' 9 : =
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6 ; 8 ' . : @ C ' 9>< :' B<: < C' $ =' <:
S 9' $@@' ?> ; @@' ? @ 9 :' : =
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$IA' E MA' GM' MFC G'' FE' I EIAJ' '' IA'N AF'N AM' (D
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0 :' H@:C 'B <= C'@$ 'B:' >;<'C$ F
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*9> '@; ?C; 8' 3$<J'$ ='F$ ' 4>@=CH J'
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.> 'B;< :' 9 C:@?' '19>: 7'?$ <
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& ='F< =:' 'CD9$<H:'$ ='@$ F
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&@@' B <= C'$ ='B: C C' $@@' 9 @@ C'$ ='9>@ B'
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&BC: ' > '?<>8' 8: C' : C
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*9$ <'F; C' 8>'B:'$8> F' >;<'D@7=J C'
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0 :' C <; 8: C'>?':;: :'C><
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&@@' :'D:@:C $@:'9>C :'>?' 9:; '
&BCD> D:' > '?<>8' 8: C'C D9

0 :'0: < C'$ ='8> : 9 C'=$ $'$< ='9>;<C'
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A "K A('N EIAJ $IGEA IG IFJ BAA' "G JAE ' '
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MG NA M "' AEE' GM' IA 'PA K'N A F' CAE 'F' J 'JAE AJ' G' "K'
G' A A' NA' F' C DA' I CI' IFJ' F' EACG' J' DA' B G NI '
J EIG' G ' PG' ' IA 'CG ' K ' 'PF K' GM' >F D " G' E'
FPPAF AJ' ' ' 9J 'B NI' IA' JFK' FM A ' IA' D JA '
A(PAC 'N' G' BA' ACA AJ' I' A' I E FED' F' J' G' IF A'
IA' CFE "A' NF AE' I G ' ' GPA' ' G' IAD/' IAK' MG ' J'
8 F' NA' F' J' TF "F' J ' F' J' -G J' > DA' ' ' =G 'C "'
I' TG G' ' F' J' IADEA" AE' IA' GBHAC 'GM' ' A EF"' 'L
J N' F G' ' F' J' FNA ' %G I A""IF NI' IFJ' BAA' ' 'G I 'N'
B ' IA' GG"' GM' I E' FCA ' ' E CI' F' CFEA' ' FE' EF J'
'A IA ' X' G JA ' GM' "F ' ' 'G ' MG D' FE' 'ACAEEF K/ X' F '
EIG "J' BA' JAC"F AJ' FNF 'E ' IA' IG"A' IG EA' GM' >FD "L
G' ' F' J' IAK' EIG "J' BA' A(PF AJ' GG ' F' J' B F' CI '
X' $IA' D JA ' FE' EG' GJ G E ' G A' -G J' > 'EJG' ' X F' J'
IA' JAF I' EG' "FDA' AJ' I' A A K' IG' AE ' DF' ' FE' IA A'
IA A' A A' N AF ' MFC G' E' N G ' ' F' J' DF' K' P F A' Q F L
A"E' FDG' N' IAD ' IAK' A A' F"" P AEA' "K' ACG' C "AJ '
F' J' IFJ' F G AJ' IA' A A' NA ' X' 8 F' NA' G "J' EPA' J'
" MA' F' J' NGGJE' ' ' IA' Q F A" ' 9" UFBA I' X D NI ' M FDA'
IA' -G JE' FE' EIA' G "J ' F' J' IF A' GM' IAD' IF ' EIA

A><' 9 ' C; 8' 8 : ' =>@:' <$; :@@' > '
*>' ; :' $@@' ; HC = :' => :
& = $@C' >' C: J' 9 :' 8 $:<' 9> '
*>' <: ?' 9 :' # F' 9 C' D<> :

9$=' $:' 1< D:' >?' F; = :' <: >;
*9$ ' ; C D:' = =' = :C <:
&F$ C' L; 9>8 :' 9 :' / $8 8 @ >; '
2 =' <$:<>; C@ ' D> CH <:
%; 9$' CD9>' 9 8' >?' 9 :' ' CD9>HH C' C $ <'
' 3 9F> ' 9$ <' 3> =>;
*>' 9<; J' 9 C' 9 ><=:' : ; :<' 8 $ <'
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' . > :C' >?' H<>D: : = FC' > ' 9 :' = : $ 9' >?' 9 :' , : F: ' A : B ' <; >
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@C := C> 9: 8 F9 J > 9:<?;@@<:C>@; > 9$ 9: 8 F9 <;C > C> C9: >;@=<= 9:8 ? $@@ >?9: ?:$< 9 9D9 9: :<: $@@H>CC:CC:= 9$ C>> :< >< @$:<?><9:<> D> E: : D: C9: >;@= <: C$: 9: =:H>C:=%;:: , E: +$ @$ =9 8C:@?? $<F> :$C 9: $C < F;:$ $ = D> CH<$D <:>H: := 9C =C;C:= D><<:CH> =: D: 9 6:D@ / : >> @J: 9:<:C 9$= B:: C> H:<C;$=:= 9$ +$< ! ;$< > @= D>8:B$DJ ;H> 9:8 9$ C9: >;@= <;8H9 $ @$C 9<>;F9 ,@I$B:9C :$J :CC 9$ 9: 9$= D$C 9C ?>< ; :C ;H> 9:< C=: , E: > $ 9C C;H<:8: 9>;< 9: $C<:$= > <: ;< > 9C >@= H>@D $ = D$<< 9$@? !D>@$ = 9 9 8 ?, @I$B:9 >;@=; =:<C$ = 9:< > 8 = $ = $=9:<: > $ =:? : <:C>@; >

, @I$B:9 9:<C:@? 9: B@> >@= 9 :<< B@: H> :< S9:9:< >< > C9: ?:@ <:8><C: ?>< 9:< > B:\ 9$E>;< > + ;<<$ 9C 8 ;<=:<B<>;F9 9>8: 9>C: <:$\ @ :C >? CCCC $ > 9 D9 9$= @> F ?@>$:=B:?><: 9:< $C $ =<:$8 . :E:< F C9: :@@J : J >;@= C9: ? = $ > 9:< !D> C> <;: > , F@$ = :E:< $ > 9:< 9>C: =C :<:C := :CC C9: D>;@= < > 9: ; :<8>C 9> > ;@= ><J ?>< 9:< 9>; 9:@H >< <: $<= >< $DJ > @:=F8: $ = 9>C: D> C$ D C9: D>;@= :E:< :79$;C / C =:$9 C9: H$CC > $:@ :7D@$ 8:= $C 9: B:F F >? 9:< > <; !9: 9$= @>C 9:< <;:C ?< : = *9:<: $C > :@J: 9 8 9: ><@= \ 'G'A C9: $=8 := > Y C> ;C:?;@ >9:<C:@?

/ ; C=> > >, @I$B:9 $ K Y " $&CC;<: >;<C:@? 9: $==:= ? ;=> > $J: 9:==: ? 9$!D> C9 %;:: C9: @@H; >; H:<@$ = 9$:<: ?B:@> F ?>< 9:<: $<: 8$ H<$D D:C $B<>$= + $ @$ = > 6:D@ $ KO Y * / , E>@

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:C H$C a D><: D>8B: @$= D: 2$8: $E?<:8: C: @$ 8>< =;=D =: +><$ H>;< @$(

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*B:A<: D9&8BCC=><?:$<:= 9$ 9:<?<C $@$<8 C9: >;@= 8$J: C9>< >J 9 9:%;:: >?!D>C *9$ +$< ! ;$< $ = 9: ' C9>H >? 5>CC 9$= B:: H< E > 9: ,$<@C <:B:@@> 9$= B:D>8: :E:< =$ 8><: D@:$< >9:< *9$ 9:5:F: C 8;<=:<D$8:?<>8 9:C$8:9$ =C9: 9$= >>J:: @ D> :D;<:= $ = $@ 9>;F9 C9: =:D@$<:= 9$? 9:%;:: >?!D>C =:= >8;<=:<9:<$C :@@ $C 9:<B<> 9:<9:<@?:C9>;@= B: > $@ $C >B: =:H: =:= ;H> $ = 9: <:B:@@> L;DJ: := B + ;<<$ C =:$9 $C C9> F C F C >? ?<:C9E $@ *9: ,$<@ >? S:C 8><:@$ = 9> ;@:CC 6> C $B@: $C =:D: E:= 9$= B:: @>>J F(?< :$9C >? >B $ F 9C H$<=> 8$=: $ =:C <;D E: ?><$ > .>< 9;8B:<@$ = 9 !<S$@ :< !D> >? ';DD@:;F9 $ = E: ;<:= => :E: 9 C F9 >? .: D$C @: $ = ><C: 9$ 9C?>@@> := 9D9 8F9 9$E: $@8>C <>;C:= ,@ ($B: 9$ @$C >; >? 9:< D;<$B@: ?<8 >? H;<H>C: !9: D>;@= =:D =: 9: C9: >;@= 9$E: => : B: :< >9:C $: 9: $C $L;:C > >? 9: :7:D;\ > >? $?: 9; =<:= H>><8: S9:<:9:<D<> 8F9 B: ?><?: := B ; D:<$ C9: $C H$<$@ C:= B \ D$H$D >? <:C>@; > 8F9 9$E: B:: 9>;F9 9$ > $<=C !D> @$ = 9C;D9 $D9$ D: <:(>H: := >9:< C9: >;@= 9$E: $D := : :<F: D$@@ $ @$C S9: C9: <:D>E:<:= ?<>8 9:< $@$<8 C;??D : @ >8>E: $C > $J: $C C :H 9D9 C9> := 9: !D> C 9$ 9: 9$= > 8><: > 9>H: ?<>8 9:< 9$ B:?><:

L;:@: C:C$: ?:<8[: =$ C C$ D9$8B<: :@@: $: CD< [$E:DL;:C @$<\ 8:CL; :@@: $E> H:<=;@: 8: @@:;< : @: H@;C ; @@: $8 L; :@@: :; $; 8> =: H>;< @$ =:< a C: 8$: < : D> C:<E:< : <:H>C% > IP ^ ' ' 'A:B P Pa

E>@ ? $%;:L;$ =@$= D :, : :=, C(D>D: $;<> B : 8$D9 [=: @$?$ <: ;:< = ; F D>;H =: 9$L;:B; : :@@: H>;< $:D> C: <> 8CL; > >;D9n a C$E : a C$H:<C> : Y 3+

*9> 8 $C 5$ =>@H9 9> 9$= C> @> F $ = ?$ 9?;@@ C:<E:= 9:< $, = B;<F9 $C <:D$@@:= ?<> 8 9 C <: <:(: $ = C: B$DJ > 9 C >@= H@$D: / C C <;D > C :<: > <: : >@= ?< : =C9 HC $ = > @ C: 9: H<:C: 9;8>;< >? 9: H:>H@: > J >F: 9:< F 9: , F\ @ C9 H$< ' ; 9: 3><=C :<: > B: ;C:= D>@@:D E:@ $C 9: 5:F: 9$= B:: ;C:= B:?><: 9: :<: > F E: $@@ $ = <:D: E: > 9 F 5$ =>@H9 $C >@= > ;<F: 9:8 9: >@= > : > 8$ $ (<:@ F > > J::H 9: 1< D: C$?: !D> @$ = $ = $=8 > A<: D9 <>>HC $8> F 9:8 ?9> :E:< 9: H<:CC:= > J > < <: ;< 9$,@ I$B: 9 >;@= =>?>< 9:8 9: $C?><B ==: > D>8 8 9:< > $ 9 F / : $C > F E: C;D9 $F: :<$@ $ C :< $C : 9:< 9: C9>;@= B: = CD>;<$F:= 9 =>;B ?9:<?$E>;< >< B>@=: := > ; <:$C> $B@: $ = >E:<9$<= =:8$ =C / $= > H< \ D H@:C B:: $ $ ><J $8> F 9: !D> C 9 D9 C>8: =:F<::9$= :; <$@ I:= ,@ I$B: 9C B:9$E>;< > 9:8 C9: >;@= 9$E: >< >;9:E:= $?< : =@:? >9:<C:@?>< ,?F@$ = >< 9 >? * ::= *9: $D ;$@ :??:D $C 8><: 9$ C;?? D: @ = C$C <>;C $ = 8:$ 9@:C9:9$= >: D>; :< 9:@$C H9$C:>? 9:< > . >< 9:< C;<<:D >

*9: $8:>? 3:> $<= 2$D<:C 9$= $HH:$<:= 8><: 9$ > D: 9: :7$8 $ > C >? 9: <C> :<C *9: ?;F E:C <:C: 8: $9 C H 9 9$= CH>J: ?<::@ >? 9 C H<:E>;C D> :7> 9 9:8 $ = 9:< ><=C 9$= B:: D$<< := > ' :< DJ > /; C=> @= .>< > C$ = 9$? 9: %;:: (J : 9: H$< 9 D9 9: 9$= H@$:= C9: >;@= 9$ F 9 8 C>> :< 9$ $ > : $ @: :< 9$= B:: ?>; = ;H> $ C:<E$ >? 9: ' C9>H >? 5>CC 9 D9 9: $C D>8H<>8 C:= $ = ,@ I$B: 9

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'' -G'JG' ' FE AFE A ' G'CGDDF'J' IF'' G A(AC A' '
-G J' +FC AE'FE '' IA G I' IA FE ' A EF""K'CF""AJ'
BK" NI 'N F'CP P"A GM BAFCG'' M AE ' CG "J'CG""AC 'MG '
IG EF'J' DA'' FBG ' I D' '' F' MA ' IG E' IF JK'KAGL
DA'' F'J' IA ' EA F' E' EAFEG'AJ' '' IA M 'FCA GM
IA %G JA ' F E' IGEA' MAF" K' FE' G' IA' -G J' GM'
F G I ' F'J' IG' A A'"GKF"' G' IA' R AA'' G'"K' IA''
IA' +FC AE' FE' "GKF"' I DEA"M' F G I' =FE "A' CG'L
F 'AJ'EGDA' I 'J AJE' GM' F DAJ' A F 'A E' $IA' %G JA '
FE' B ' A'' D "AE' J E F' ' F'C ' G' IG E' NF.GP' G "J'
B 'N' JG '' F' M" NI ' GM' DGEE GGPA E' M GD' - JJ EJF"A' '
>A' IFJ' CF'' G'' F'J' PG JA / IA' FE' CI' F'J' IFJ'
BAA'' "G'N' P APF AJ/ F'J' E F AJ'FE' IA' FE' IA' CG "J'
M NI ' M' ' EA AJ' I E' P PGEA' G ' M"K' G' #CG "F'J'
M' M" NI ' FE' CG' A' A' ' $G' F AE ' I D' AQ AJ' F'
EDF"' F DK ' F'J' 'M F AJ' FE' IA' PAGP"A' A A' BK'
IA' A(AC P'E' ' FE' F' J MM C " ' F'J' IF"M' JAEPA F A'
A' A P EA

EEA(' G'' ACA 'N' IA' R AA' E G JA ' AP" AJ ' IF 'FE'
EIA' IFJ' BAA'' P"AFEAJ' G' G JA 'IA ' GGPE' G' BA' ' (! ' ' '
IA' IFJ' 'G' MG CA' F ' I E' J EPGE G'' '' CG "J' 'G ' F '
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CHAP XVIII

1570 February

Retreat being impossible, the Berwick men stood to their arms; they were trained marksmen, as the time then was, and, at close quarters, their harquebuses gave them a terrible advantage. The Borderers staggered under the fire, and, before they could recover themselves, Hunsdon fell on them with a squadron of horse, cut up some hundreds of them, and drove them back in confusion. Having so largely the advantage in numbers, they might still have thrown themselves across the bridge and held the passage of the river; but Dacres of the crooked back, so bold in conspiracies, was faint-hearted in the field. When Hunsdon charged, 'he fled like a tall gentleman, and never looked behind him till he was in Liddisdale.' A trooper seized him by the arm, and had almost secured him, but a party of Scots came to his rescue and snatched him from capture and the scaffold.[1] Their leader gone, the Borderers scattered to their homes. Two hundred men who had been left in Naworth fled like the rest, and, by the afternoon, the castle and its guns were surrendered. The victory was complete, but it was one of the many accidents to which Elizabeth was overmuch indebted. Had the battle been lost, as too easily it might have been lost, Lord Hunsdon thought that England would have been lost with it; and, like a man shuddering at the thought of a danger from which he has narrowly escaped, he tried again to force Elizabeth to look her situation in the face, to think less of money and more of the enormous interests which she was imperilling by her parsimony and vacillations.[2]

[1] Hunsdon to the Queen, Feb. 20. —*MSS. Border.*

[2] Hunsdon to Cecil, March 3.— *MSS. Border.*

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